

MYPERKS

A Project Report submitted in partial fulfilment of the requirements for
the award of the degree of Bachelor of Technology

in

Computer Science and Engineering

By

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Under the supervision of

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to



Department of Computer Science & Engineering and Information
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Certificate

Candidate's Declaration

I hereby declare that the work presented in this report entitled “ **Myperks**” in partial fulfillment of the requirements for the award of the degree of **Bachelor of Technology** in **Computer Science and Engineering/Information Technology** submitted in the department of Computer Science & Engineering and Information Technology, Jaypee University of Information Technology Waknaghat is an authentic record of my own work carried out over a period from Feb 2019 to May 2019 under the supervision of **Mr. Saurabh Mishra (Product Lead at Kwench Global Technologies Ltd)**.

The matter embodied in the report has not been submitted for the award of any other degree or diploma.

Shivam Kartikay(151380)

This is to certify that the above statement made by the candidate is true to the best of my knowledge.

Mr.Saurabh Mishra

Product Lead at Kwench Global Technologies Ltd.

Dated:

ACKNOWLEDGEMENT

It gives us a great sense of pleasure to present the report of the B.Tech Major Project undertaken during B.Tech Fourth Year. This project in itself is an acknowledgement to the inspiration, drive and technical assistance contributed to it by many individuals. This project would never have seen the light of the day without the help and guidance that we have received.

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Thanking you,

Shivam Kartikay(151380)

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ABSTRACT

The objective of this venture is to structure an online reward and acknowledgment stage. To sum things up it is a :-

- **Social and Collaborative acknowledgment** - We have planned the stage keeping in view the familiar maxim that all acknowledgment is innately a social need. The stage is loaded with social and collective acknowledgment highlights going from straightforward distributed thankfulness/wishes/gifting to complex designations, casting a ballot and so forth.
- **End to End stage** - Experience an unparalleled acknowledgment stage that joins contemporary person to person communication highlights and customary complex work processes in organizations to make a one of a kind, start to finish stage for overseeing and directing acknowledgment, prizes and reclamation programs.
- **Global Solution** - We have an ideal answer for enormous organizations with worldwide nearness. Our cloud based stage and worldwide sourcing accomplices give a chance to organizations to make their acknowledgment programs really worldwide.
- **Customization and marking** - Companies can improve their image review by utilizing the marking highlights in our stage. Our stage is exceptionally configurable and can be redone to meet the mind boggling work process prerequisites in enormous organizations.

Chapter 1

Introduction

1.1 Overview and Motivation

The main thing in the working environment is helping representatives feel increased in value.

Representative acknowledgment knows no logbook — it's a significant piece of organization culture throughout the entire year and presumably dependably will be. Here are three reasons for what reason that is so.

1.1.1 Recognized Employees Are Happy Employees

When you demonstrate your workers that you see and value their endeavors and set aside the effort to exhibit the amount of a quantifiable effect they're having on your business and your edge of the world those representatives like what they do and they take those emotions home with them. Cheerful workers are by and large 12 percent more gainful than their less-upbeat partners. Sounds like a success win.

1.1.2 Appreciative Leaders Are Appreciated Leaders

You don't need to simply fire and overlook where trust is concerned now and again you should simply assemble a strong establishment for it to flourish. For our situation today, that establishment is appreciation. At the point when representatives realize their endeavors add to a reason and are seen by individuals higher up the natural pecking order, they feel a more profound association with initiative. Obviously, almost 90 percent of representatives who got acknowledgment or thanks from their supervisor in the previous month demonstrated larger amounts of trust in that manager. Among representatives who got no acknowledgment, just 48 percent showed they confided in their higher-ups.

1.1.3: When Employees Feel Recognized, They Stick Around

For our third and last protection of representative acknowledgment, how about we consider the expenses of preparing a fresh out of the plastic new worker to the point where they can fill in as certainly and as proficiently as an organization veteran. As indicated by certain assessments, respecting another contract into the overlap could cost as much as \$3,500 for

enrollment and as much as \$1,200 and 32 hours out of each year in continuous preparing. Everything considered, another contract may cost \$4,129 and upwards of 42 days in lost or traded off profitability.

At the point when inquired as to why they chose to change to an alternate vocation, most by far of representatives spoke to in an ongoing U.S. Agency of Labor and Statistics report demonstrated they felt either an absence of regard or an absence of self-governance. With a smidgen of acknowledgment, you can turn around these patterns and keep your ability around for any longer.

Representative acknowledgment is the auspicious, casual or formal affirmation of an individual's or group's conduct, exertion or business result that bolsters the association's objectives and qualities, and which has plainly been past ordinary desires.

There are two perspectives to representative acknowledgment:

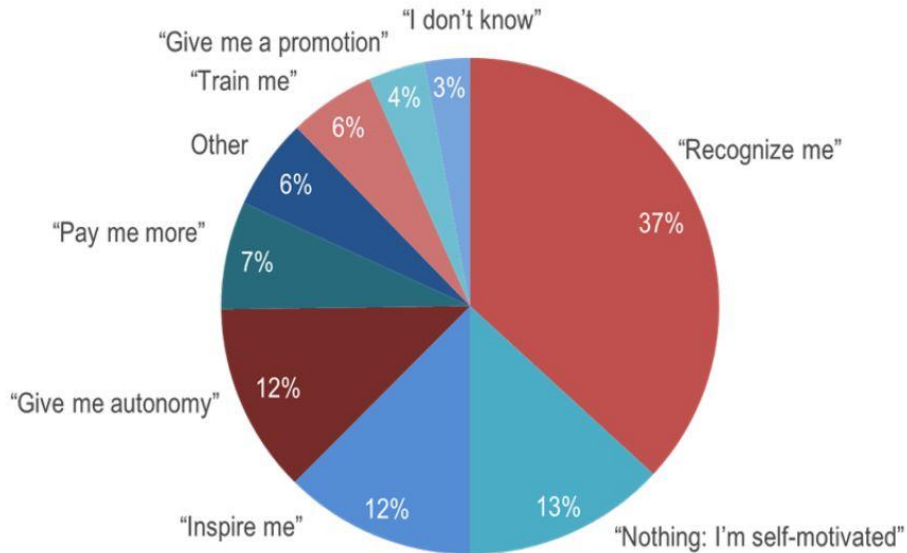
1. The first perspective is to really observe, distinguish or understand a chance to commend somebody. In the event that you are not in an open temper you can without much of a stretch disregard numerous such chances. This happens very often.
2. The other part of worker acknowledgment is, obviously, the physical demonstration of planning something for recognize and commendation individuals for their great work.

The Aon 2018 Trends in Global Employee Engagement overview, directed in 1,000 organizations utilizing 8 million individuals all around, demonstrated prizes and acknowledgment as "the most grounded driver of commitment," and that acknowledgment for commitments (aside from pay and advantages) was the key factor in the prizes and acknowledgment part.

The Boston Consulting Group directed an online worldwide investigation of 200,000 representatives from 189 nations in 2014, finding that "All around, the most significant single occupation component for all individuals is thankfulness for their work." Appreciation was the top factor for bliss at work, in front of 25 different factors, and was featured in the discoveries as a sign of "the developing significance of 'gentler' factors."

A Cicero consider in 2015 found that representatives self-revealed that their own drivers of incredible work were:

Most Important Drivers of Great Work



Surprising expense of withdrew representatives

- The cost of procuring another representative (promoting, talking with, screening, enlisting), and onboarding them (preparing, the board time)
- Lost efficiency while the new individual gets up to speed
- Lost commitment as different workers see high turnover and will in general lose efficiency
- Reduced client administration productivity and mistakes
- Training cost and social effect.

1.2 Objective

The fundamental goal of this undertaking is to build up a representative reward and acknowledgment stage in which each information exchange client of an association can

- Recognize and advance positive practices that help singular, gatherings, divisions and offices in accomplishing the association mission, vision, and qualities.
- Assist in making a culture of shared regard, reward, and acknowledgment for workers at all dimensions.
- Provide auspicious acknowledgment to representatives in a non-fiscal honor dependent on the importance of the commitment.
- Improve representative efficiency and nature of work

The stage when conveyed ought to be –

- **Meaningful** - to persevere through a persuading impact, prizes ought to be lined up with the qualities, objectives, and needs that issue the most.
- **Adaptable** - the various work environment requests options. Consider inventive alternatives to keep your program new. No single reward group works for everybody constantly.
- **Relevant** - some close to home measurement is fundamental to a decent reward. Regardless of how formal or casual, costly or reasonable, the importance of any acknowledgment will be improved with an individual touch - it's an easily overlooked detail that has a major effect.
- **Timely** - it is significant that rewards react to the conduct they are aiming to fortify. Try not to give a lot of time a chance to pass or the reward might be cheapened and validity dissolved.

1.3 Organization of the Project Report

The report is sorted out as follows: -

Chapter 1: This part manages review and inspiration of the task. This part gives the review of the task alongside the inspiration we have experienced.

Chapter 2: This section manages necessity investigation, practicality examination on different parameters, modules portrayal, functionalities of every module and Use case for different situations.

Chapter 3: This part incorporates the UML chart, Dataflow graph, Database plan.

Chapter 4: This part incorporates all UI, yield screens and depiction.

Chapter 5: This part contains created experiments (a few) for black box and white box testing.

Chapter 6: This section contains the decision about our application.

Chapter 2

Software Requirement Analysis

This section gives the point by point diagram of necessity and investigation of our venture "Myperks". This portrays the product and equipment prerequisites of the undertaking. It additionally portrays the utilitarian and non-useful prerequisites of the venture. This part additionally tells about different use instances of various modules associated with our task.

2.1 General Description

2.1.1 Angular is a stage that makes it simple to manufacture applications with the web. Rakish consolidates definitive formats, reliance infusion, start to finish tooling, and incorporated accepted procedures to tackle improvement challenges. Rakish enables engineers to assemble applications that live on the web, versatile, or the work area.

Precise is a JavaScript-based open-source front-end webframework to address a significant number of the difficulties experienced in creating single-page applications. It plans to rearrange both the advancement and the testing of such applications by giving a structure to customer side model– view– controller (MVC) and model– view– viewmodel (MVVM) designs, alongside parts generally utilized in rich Internet applications.

The Angular system works by first perusing the Hypertext Markup Language (HTML) page, which has extra custom HTML characteristics installed into it. Precise translates those credits as mandates to tie information or yield portions of the page to a model that is spoken to by standard JavaScript factors. The estimations of those JavaScript factors can be physically set inside the code, or recovered from static or dynamic JSON assets. AngularJS is as of now in the main 100 of the most featured ventures on GitHub.

Rakish is based on the conviction that decisive programming ought to be utilized to make UIs and interface programming segments, while basic writing computer programs is more qualified to characterizing an application's business logic. The structure adjusts and stretches out customary HTML to introduce dynamic substance through two-way information restricting that takes into consideration the programmed synchronization of models and perspectives. Accordingly, AngularJS de-stresses unequivocal Document Object Model (DOM) control with the objective of improving testability and execution.

2.2.2 Spring Boot is the beginning stage for structure all Spring-based applications. Spring Boot is intended to get you ready for action as fast as could reasonably be expected, with negligible forthright design of Spring.

- Get began in seconds utilizing Spring Initializr
- Build anything: REST API, WebSocket, web, gushing, assignments, and the sky is the limit from there
- Simplified security
- Rich support for SQL and NoSQL
- Embedded runtime support: Tomcat, Jetty, and Undertow
- Developer profitability devices, for example, LiveReload and Auto Restart
- Curated conditions that simply work
- Production-prepared highlights, for example, following, measurements, and wellbeing status
- Works in your most loved IDE: Spring Tool Suite, IntelliJ IDEA, and NetBeans

The Spring Framework incorporates a few modules that give a scope of administrations:

- Spring Core Container: this is the base module of Spring and gives spring holders (BeanFactory and ApplicationContext).
- Aspect-situated programming: empowers executing cross-cutting concerns.
- Convention over setup: a fast application improvement answer for Spring-based endeavor applications is offered in the Spring Roo module
- Data get to: working with social database the executives frameworks on the Java stage utilizing Java Database Connectivity (JDBC) and article social mapping instruments and with NoSQL databases
- Inversion of control holder: design of use segments and lifecycle the board of Java objects, done for the most part by means of reliance infusion

- **Messaging:** configurative enrollment of message audience objects for straightforward message-utilization from message lines by means of Java Message Service (JMS), improvement of message sending over standard JMS APIs
- **Model– view– controller:** a HTTP-and servlet-based structure giving snares to augmentation and customization for web applications and RESTful (illustrative state exchange) Web administrations.
- **Transaction the board:** brings together a few exchange the board APIs and directions exchanges for Java objects
- **Remote the board:** configurative presentation and the executives of Java objects for neighborhood or remote design by means of Java Management Extensions (JMX)
- **Testing:** bolster classes for composing unit tests and coordination tests

2.2.3 PostgreSQL (additionally alluded to as **Postgres**) is an open-source social database the board framework (RDBMS) underscoring extensibility and norms consistence. It can deal with remaining burdens extending from single-machine applications to Web administrations or information warehousing with numerous simultaneous clients PostgreSQL is ACID-agreeable and value-based. It offers support for RDBMS highlights, for example, updatable and emerged sees, triggers, remote keys; works and put away techniques. It is free and open-source programming discharged under a tolerant programming permit.

PostgreSQL oversees simultaneousness through multiversion simultaneousness control (MVCC), which gives every exchange a "depiction" of the database, enabling changes to be made without influencing different exchanges. This generally kills the requirement for read bolts, and guarantees the database keeps up ACID standards. PostgreSQL offers three dimensions of exchange disengagement: Read Committed, Repeatable Read and Serializable. Since PostgreSQL is resistant to filthy peruses, mentioning a Read Uncommitted exchange seclusion level gives read submitted. PostgreSQL underpins full serializability by means of the serializable depiction disconnection (SSI) method.

2.2.4 Redis Remote Dictionary Server[5] is an in-memory information structure venture actualizing an appropriated, in-memory key-esteem database with discretionary sturdiness. Redis underpins various types of conceptual information structures, for example, strings, records, maps, sets, arranged sets, HyperLogLogs, bitmaps, streams, and spatial lists.

Redis regularly holds the entire dataset in memory. Redis can revamp the annex just document out of sight to dodge an uncertain development of the diary. As a matter of course, Redis composes information to a record framework somewhere around at regular intervals, with pretty much powerful alternatives accessible if necessary. On account of a total framework disappointment on default settings, just a couple of moments of information would be lost.

2.2.5 Mybatis is a Java steadiness system that couples objects with put away techniques or SQL proclamations utilizing a XML descriptor or explanations. MyBatis does not outline items to database tables but rather Java strategies to SQL explanations. MyBatis gives you a chance to utilize all your database usefulness like put away methods, sees, inquiries of any multifaceted nature and seller restrictive highlights.

It rearranges coding contrasted with JDBC. SQL explanations are executed with a solitary line. MyBatis gives a mapping motor that maps SQL results to question trees in a definitive manner. SQL proclamations can be constructed powerfully by utilizing an inherent language with XML-like sentence structure or with Apache Velocity utilizing the Velocity coordination module. MyBatis underpins decisive information reserving. An announcement can be set apart as cacheable so any information recovered from the database will be put away in a reserve and future executions of that announcement will recover the stored information rather hitting the database.

2.2 Feasibility Study

A key piece of the starter examination that audits foreseen expenses and benefits and suggests a strategy dependent on operational, specialized, monetary, and time factors. The motivation behind the investigation is to decide whether the frameworks solicitation ought to continue further.

2.2.1 Does the New System Contribute to the Overall Objectives of the Organization?

The new framework would add to the general targets to of the client. It would give a speedy, blunder free and savvy answer for the present procedure. It would give an answer for some issues in the present framework. As the new framework is adaptable and versatile it can likewise be updated and stretched out to meet other complex necessities which might be brought up later on. Notwithstanding, it is dependent upon the client to overhaul or broaden it.

2.2.3 Can current Application be created inside spending plan?

Truly, the present undertaking is suitable to be created inside the financial limit. The specialized hardware that we are utilizing are very little expensive and can be bought effectively. To the extent programming necessities are concerned we are utilizing all the "Open-Source Free-authorized API's and Software". Hence, monetary practicality is met.

2.2.4 Does all the colleagues have enough information in order to build up this venture?

Above all else, condition that must be satisfied before beginning any new venture is the prerequisite of talented colleagues that are sufficiently proficient to finish the undertaking. We as colleagues ensure that we as a whole have essential information of all the recorded virtual products and instruments just as programming strategies before beginning the task.

2.2.5 Can the Application be created inside stipulated time period?

Truly, to the extent the time is concerned, we have adequate time to finish this task. We have looked into altogether concerning how to continue while advancement stage. A total work process configuration has been arranged in order to keep ourselves in testing time limit. We have seen each part of difficulties that may emerge in our improvement stage and can reason that truly, we will finish the venture in given time limit.

2.3 Product Perspective

The Application will be a representative acknowledgment stage based, independent and autonomous programming item

2.4 Product Functions

Client's job: He/She (Employee) will probably get to following module of the framework:

- **Appreciate** :- There will be two screens in this module. One will be a structure with approvals to welcome a kindred client and other will be for the client and his/her kindred clients to see the feed produced. The backend will comprise of programming interface's with code to store approve and appreciate.
- **Spot** :- There will be two screens in this module. One will be a structure with approvals to recognize a kindred client and other will be for the client and his/her kindred clients to

see the feed produced. The backend will comprise of programming interface's with code to store approve and spot.

- **Wish** :- There will be two screens in this module. One will be a structure with approvals to wish a kindred client and other will be for the client and his/her kindred clients to see the feed created. The backend will comprise of programming interface's with code to store approve and wish.

2.5 User Characteristics

Clients must have following qualities:

- Must have the rudimentary PC learning and the information to utilize the application.

2.6 General Constraints

The general imperative is that the client needs to recollect the certifications to login into the framework.

2.7 Assumptions and Dependencies

The application has the accompanying suspicions:

- The framework is having required setup.
- The client knows about how to transfer and fill the structure.

2.8 Specific Requirements

None.

2.9 External Interface Requirements

This segment incorporates UIs, programming interfaces, equipment interfaces, correspondence interfaces.

2.9.1 User Interfaces

Any client can approach the site with a workstation, android or an ios gadget.

2.9.2 Hardware Interfaces

- Processor Speed: 2.0 GHz to 3.5 GHz
- RAM: 2 GB of free RAM

- Hard Disk: 4GB to 30GB

2.9.3 Software Interfaces

- Mac OS or Windows Operating System
- Visual studio
- IntelliJ or obscuration
- Npm
- Maven
- Pgadmin
- Postman

2.9.4 Communication Interfaces

Show Screen.

2.10 Functional Requirements

This area portrays explicit highlights of the product venture. Whenever wanted, a few necessities might be determined in the utilization case position and recorded in the Use Cases Section. This segment will give detail usefulness of the application.

- **Ability to give thankfulness:-** User will most likely acknowledge individual client on a similar access level or somebody underneath his/her entrance level.
- **Ability to give wishes:-** User will almost certainly wish individual clients on events indicated or modified by him/her.
- **Ability to give spot:-** User will almost certainly spot individual clients by giving them fiscal focuses as per the association spot giving guidelines.

2.11 Non-Functional Requirements

Following are the non-practical necessities of the given programming framework.

2.11.1 Performance

The product ought to have the option to comprehend client's expectation and create to a degree without influencing the general execution of the framework. For no situation the

framework's presentation ought to be corrupted and it should show right message for each info direction it has been given.

2.11.2 Reliability

The product framework must give unwavering quality with respect to:

- The dishonest access of framework ought to be ensured.

2.11.3 Availability

The product should be responsive in all conceivable and possible states, in that it ought not leave a client off track.

For this web association ought to be kept up without deterrent so the outcomes can be gotten over web utilizing different API keys.

2.11.4 Security

Physical harms of mirror are under the control of client.

2.11.5 Maintainability

The product should be effectively viable and simple to change.

2.11.6 Portability

The product is versatile in that it is required to keep running on the accompanying stages

- All forms of OS

2.12 Design Constraints

The structure requirements as relevant to the given programming frameworks seem to be:

- The product is to be manufactured utilizing Windows or MacOS as improvement stages
- All the advancement instruments authorized under some open or free permit

2.13 Logical Database Requirements

- **PostgreSQL:-** PostgreSQL gives two particular approaches to store twofold information. Paired information can be put away in a table utilizing the information type byte or by utilizing the Large Object highlight which stores the twofold information in a different table in an exceptional configuration and alludes to that table by putting away an estimation of

sort id in your table. PostgreSQL requires least kept up endeavors due to its security. Hence, in the event that you create applications dependent on PostgreSQL, the all out expense of proprietorship is low in correlation with other database the executives frameworks. PostgreSQL has many propelled highlights that other undertaking database the executives frameworks offer, for example,

- User-characterized types
- Table legacy
- Sophisticated bolting component
- Foreign key referential uprightness
- Views, rules, subquery
- Nested exchanges (savepoints)
- Multi-form simultaneousness control (MVCC)

2.14 Other Requirements

None.

Chapter 3

Software Design

Programming configuration is the way toward imagining and characterizing programming answers for at least one lots of issues. One of the primary parts of programming configuration is the product prerequisites investigation (SRA). SRA is a piece of the product advancement process that rundowns particulars utilized in programming designing. On the off chance that the product is "semi-robotized" or client focused, programming configuration may include client experience configuration yielding a storyboard to help decide those details. On the off chance that the product is totally mechanized (which means no client or UI), a product configuration might be as basic as a stream outline or content portraying an arranged succession of occasions. There are likewise semi-standard strategies like Unified Modeling Language and Fundamental displaying ideas. In either case, some documentation of the arrangement is generally the result of the plan. Moreover, a product configuration might be stage free or stage explicit, contingent on the accessibility of the innovation utilized for the structure.

3.1 Introduction

This report exhibits the structure of a Bookshelf site that is facilitated on the cloud. These plans speak to different conditions of the framework, stream of the total framework, alongside portrayal how the client will interface with the framework.

3.1.1 DFD (Data Flow Diagram)

A bolt speaks to an information stream; it speaks to the way over which information goes in the

framework. An information stream can move between procedures, stream into or out of information stores, to and from outside elements.

3.1.1.1 Bubbles (Process)

A circle or air pocket speaks to that changes information from once structure to another by playing out certain assignments with the information.

3.1.1.2 Data Store

An information store is where information is held incidentally starting with one exchange then onto the next or is put away forever.

3.1.1.3 External Entity

Which characterizes a source or goal of framework information additionally called an outside element. In light of the working procedure of the proposed framework Data Flow Diagram (DFD), is a model, which gives the understanding into the data area and practical space in the meantime can be drawn utilizing OMT images. DFD is refined into various dimensions. The more refined DFD is more subtleties of the framework are joined.

Images utilized:

- Process
- Entity
- Data stream
- Data store.

3.1.1.4 Level-0 DFD

A setting graph is a top dimension (otherwise called "Level 0") information stream outline. It just contains one procedure hub ("Process 0") that sums up the capacity of the whole framework in relationship to outside substances.

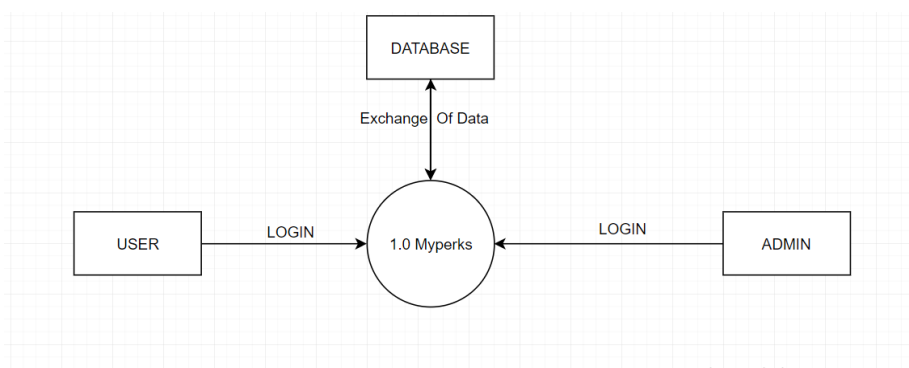


Fig. 3.1 DFD Level 0

3.1.1.5 Level-1 DFD

The Level 1 DFD shows how the framework is partitioned into sub-frameworks (forms), every one of which manages at least one of the information streams to or from an outer specialist, and which together give the majority of the usefulness of the framework overall. An information stream chart is graphical apparatus used to portray and break down development of information through a framework.

Images utilized:

- Process
- Entity
- Data stream
- Data store

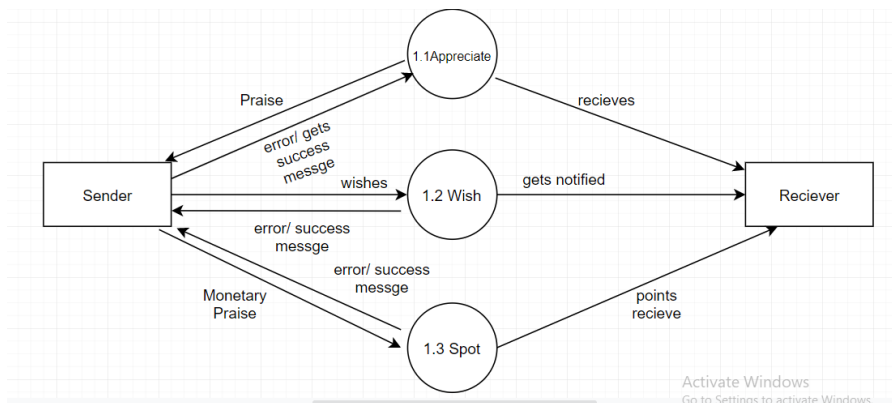


Fig. 3.2 DFD Level 1

3.1.2 Use Case Diagram

An utilization case outline at its most straightforward is a portrayal of a client collaboration with the framework that demonstrates the connection between the client and the distinctive use cases in which the client is included. An utilization case outline can condense the subtleties of our framework clients (otherwise called entertainers) and their connections with the framework. To construct one, we are utilizing a lot of specific images and connectors. A powerful use case graph can enable our group to talk about and speak to:

- Scenarios in which our framework or application associates with individuals, associations, or then again outside frameworks.
- Goals that our framework or application helps those substances (known as on-screen characters)

Accomplish the extent of our framework.

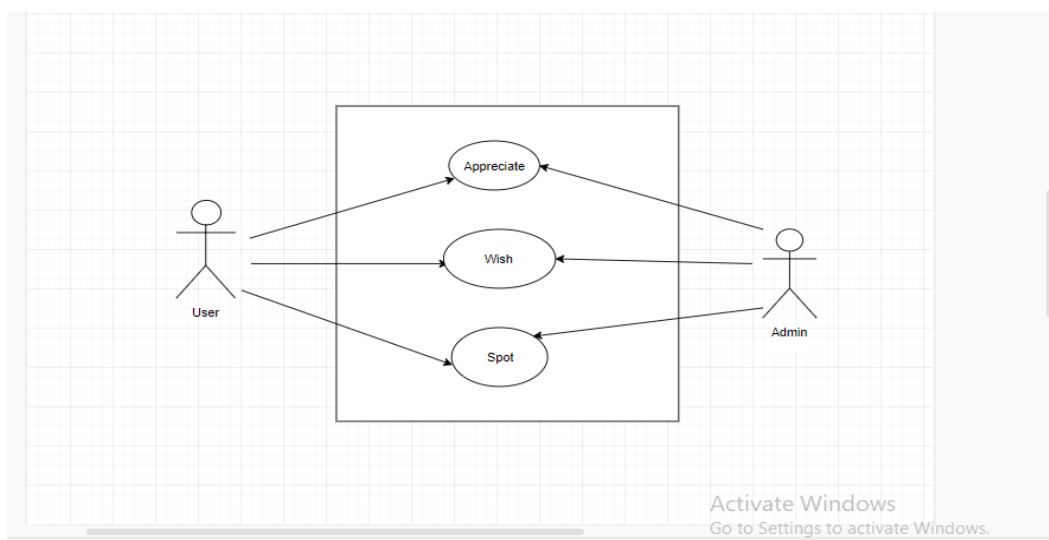


Fig. 3.3 Use Case graph

Chapter 4

Implementation and User Interface

This part incorporates all UI, yield screens and portrayals. It further portrays the usage subtleties and modules utilized.

4.1 Using Version Control System

Webpack is an open-source JavaScript module bundler. It is a module bundler essentially for JavaScript, yet it can change front-end resources like HTML, CSS, even pictures if the comparing modules are incorporated. Webpack takes modules with conditions and produces static resources speaking to those modules.

Gerrit is a free, online group code coordinated effort instrument. Programming designers in a group can audit each other's alterations on their source code utilizing a Web program and favor or reject those changes. It coordinates intimately with Git, a dispersed adaptation control framework.

Jenkins is an open source robotization server written in Java. Jenkins mechanizes the non-human piece of the product improvement process, with constant reconciliation and encouraging specialized parts of consistent conveyance. It is a server-based framework that keeps running in servlet compartments, for example, Apache Tomcat

4.1 Gerrit Score

- +2 Looks good to me, approved
- +1 Looks good to me, but someone else must approve
- 0 No score
- -1 I would prefer that you didn't submit this
- -2 Do not submit

4.2 Steps Used in Deployment of the website

- Making the change
- Creating the review.
- Reviewing the change.
- Reworking the change.
- Verifying the change.
- Submitting the change.

4.3 Commands used for deployment

- `git clone ssh://gerrithost:29418/Myperks.git myperks`
- `git add <filename>`
- `git commit -m "<Commit message >"`
- `git commit -append`
- `git fetch`
- `git rebase origin/master`
- `git review`
- `git reset -hard origin/master`
- `ng serve configuration = prod`

4.4 Screenshots

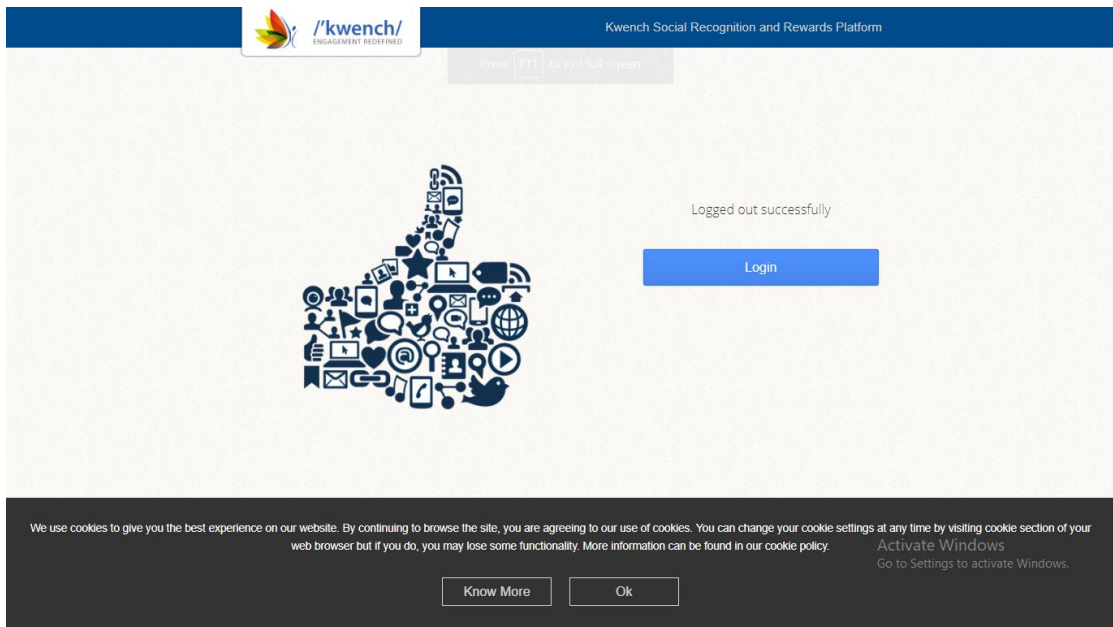


Fig. 4.1 Login to Myperks

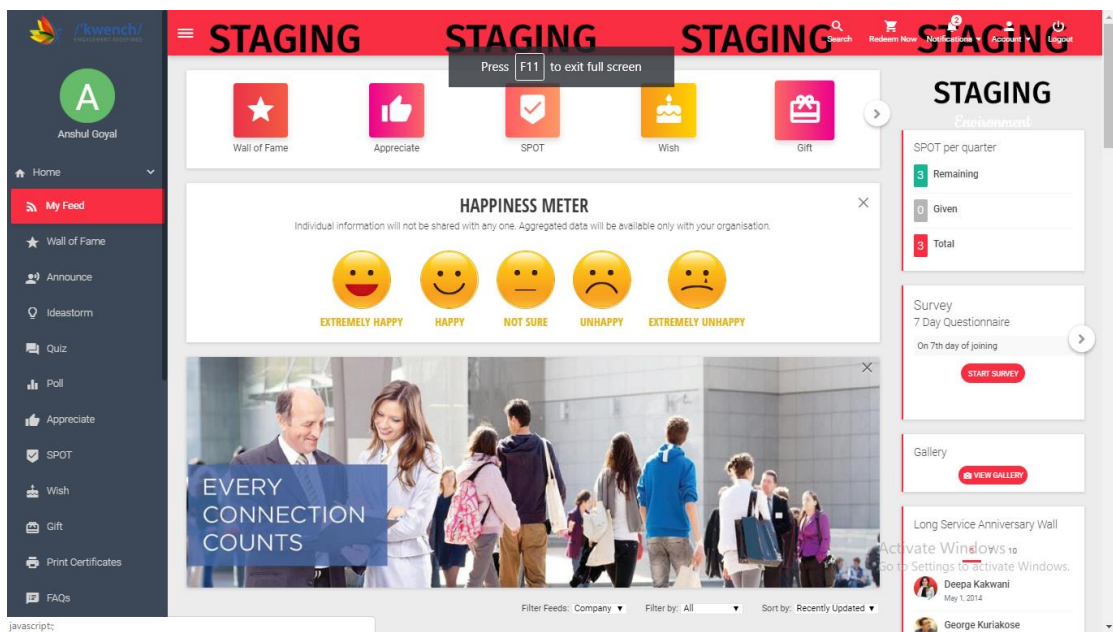


Fig. 4.2 Home Screen of Myperks

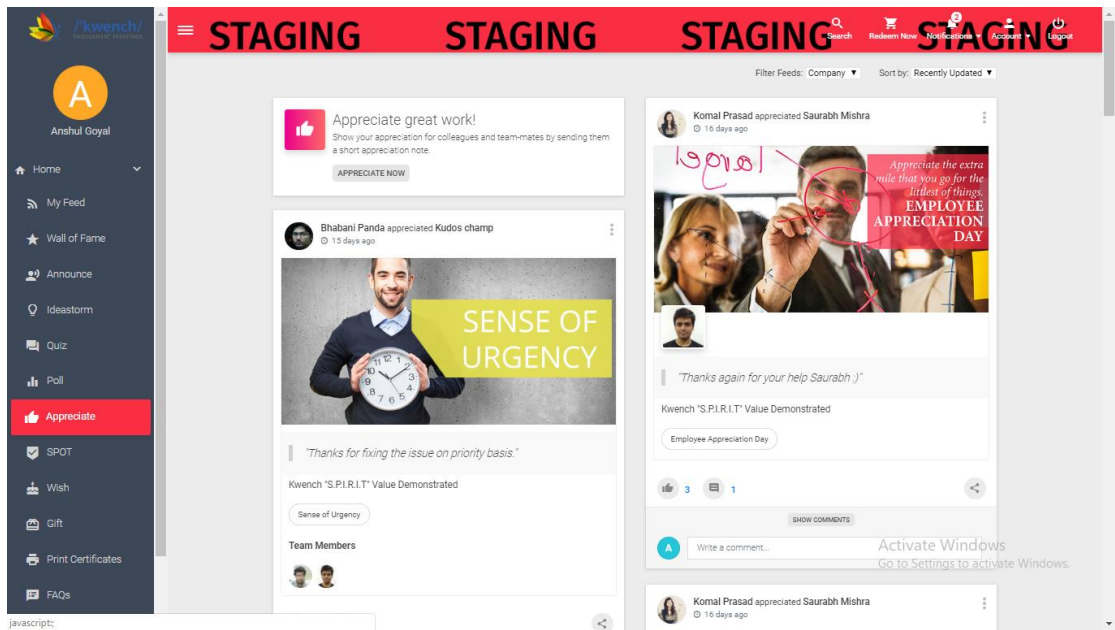


Fig. 4.3 Appreciate feed page

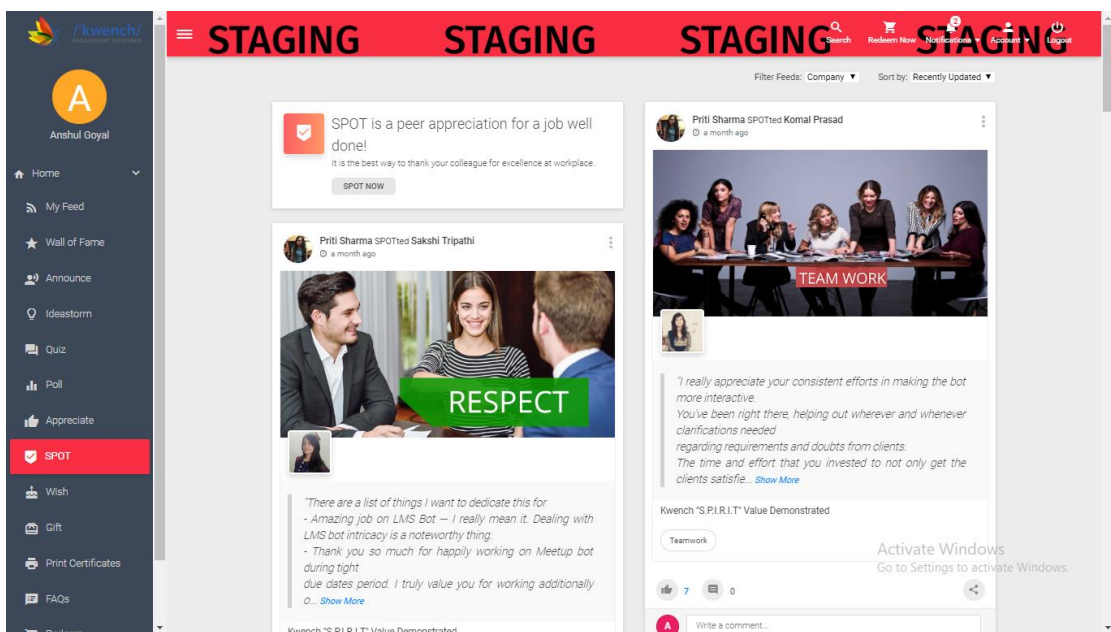


Fig. 4.4 Spot feed page

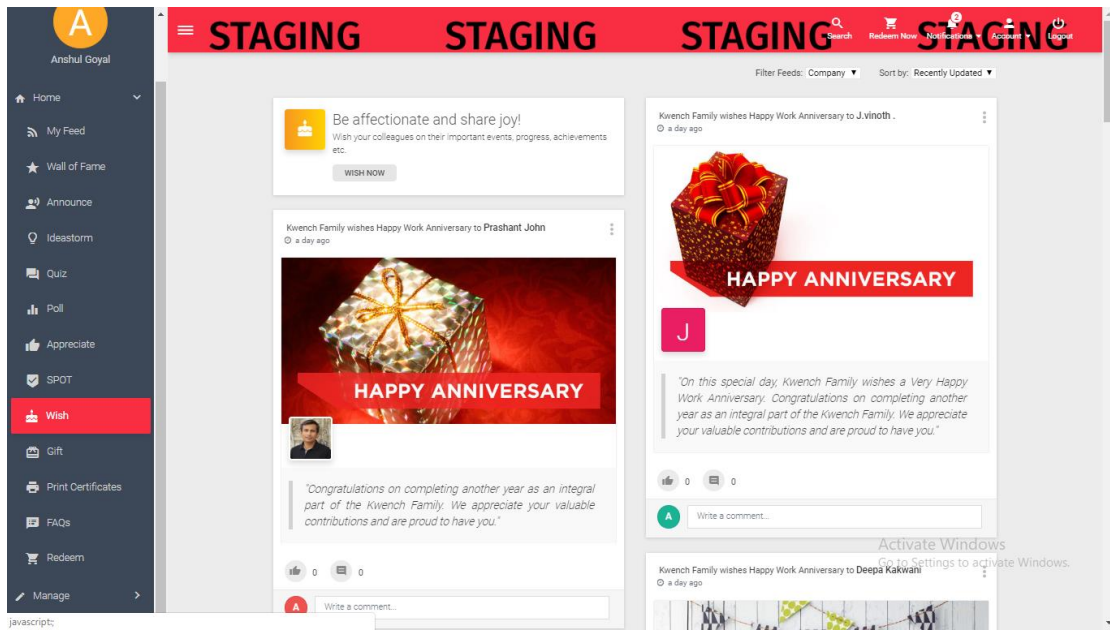


Fig. 4.5 Wish feed page

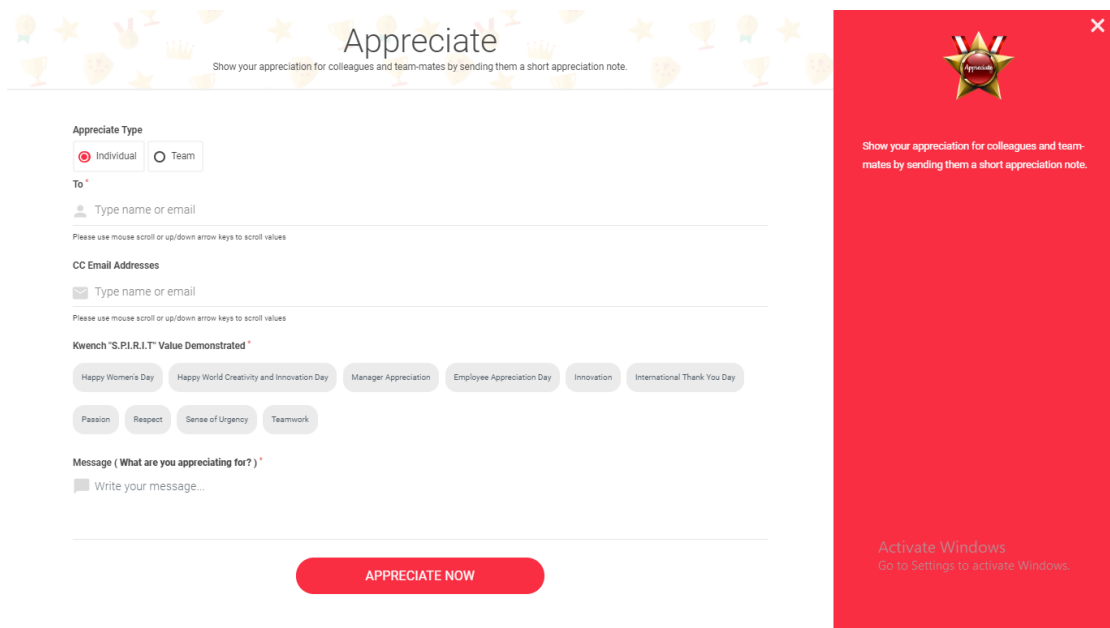


Fig. 4.6 Appreciate Screen (give appreciation in team or to an individual)

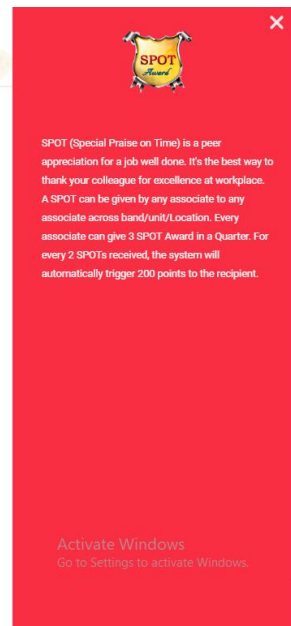
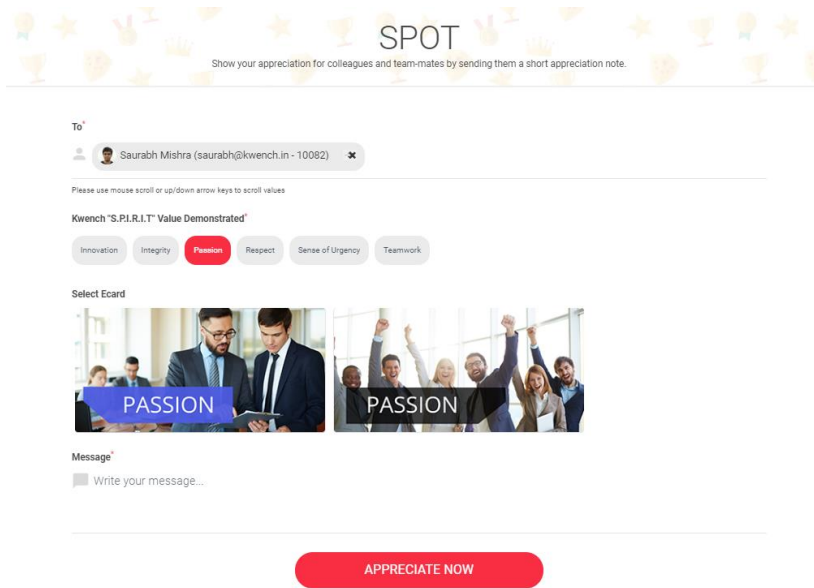


Fig. 4.7 Spot Screen

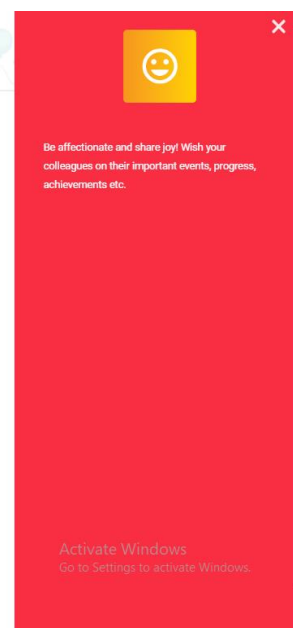
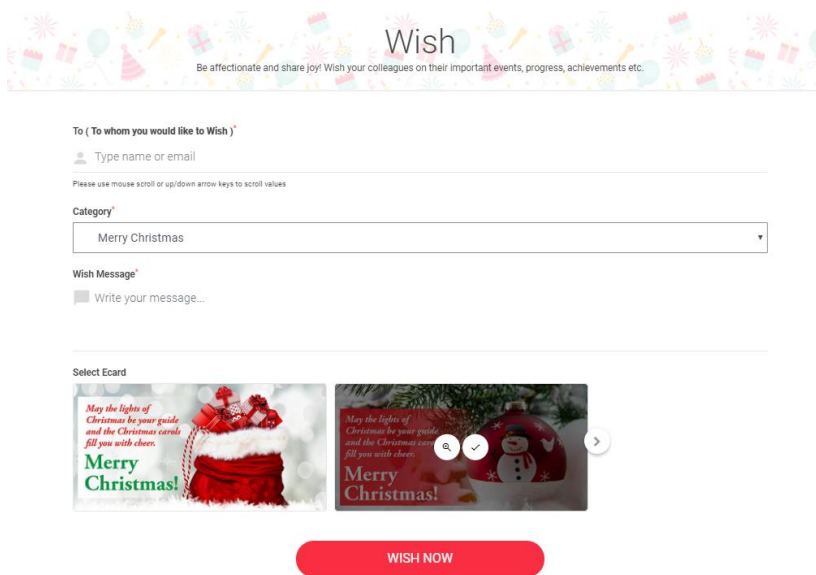


Fig 4.8 Wish screen

Chapter 5

Software Testing

5.1 Introduction

Programming testing is an examination directed to furnish partners with data about the nature of the item or administration under test. Programming testing additionally gives a goal, free perspective on the product to enable the business to acknowledge and comprehend the dangers of programming execution. Test strategies incorporate, however are not constrained to, the way toward executing a program or application with the goal of discovering programming bugs.

5.2 White Box Testing

White box testing methodology manages the inner rationale and structure of the code. White box testing is likewise called as glass, basic, open box or clears box testing. The tests composed dependent on the white box testing system fuse inclusion of the code composed, branches, ways, articulations and inward rationale of the code and so on. So as to execute white box testing, the analyzer needs to manage the code and thus is expected to have learning of coding and rationale for example interior working of the code. White box test likewise needs the analyzer to investigate the code and discover which unit/proclamation/piece of the code is failing.

5.2.1 Advantages of White box testing

As the information of inside coding structure is essential, it turns out to be extremely simple to discover which kind of information/information can help in testing the application adequately.

The other preferred position of white box testing is that it helps in improving the code

5.2.2 Disadvantages of white box testing

As information of code and inside structure is an essential, a gifted analyzer is expected to complete this kind of testing, which expands the expense.

Also, it is almost difficult to investigate all of code to discover shrouded mistakes, which may make issues, bringing about disappointment of the application.

5.3 Black Box Testing

In Black Box Testing, the analyzer tests an application without learning of the interior activities of the application being tried. Information are gone into the application and the result is contrasted and the normal outcomes; what the program does with the info information or how the program touches base at the yield information isn't a worry for the analyzer performing discovery testing. All that is tried is the conduct of the capacities being tried. This is the reason discovery testing is otherwise called useful testing which tests the usefulness of a program. Note we can likewise have non-utilitarian discovery testing, for example, execution testing which is a kind of discovery testing yet as opposed to checking the conduct of the framework, it tests to what extent it takes for a capacity to react to client's sources of info and to what extent it takes to process the information and produce yields. Since discovery testing isn't worried about the hidden code, at that point the strategies can be gotten from the prerequisite archives or structure details and subsequently testing can begin when the necessities are composed.

5.3.1 Advantages of Black Box Testing are:

- The test is fair in light of the fact that the architect and the analyzer are autonomous of one another.
- The analyzer does not require learning of a particular programming dialects.
- The test is done from the perspective of the client, not the planner.
- Test cases can be planned when the details are finished.

5.3.2 Disadvantages of Black Box Testing are:

- The test can be excess if the product originator has just run an experiment.
- The experiments are hard to structure.

5.4 Test Cases

| Test scenario ID | Test scenario description | Test Case description | Pre-conditions | Expected results | Actual Results |
|------------------|---------------------------|--|--|---|--|
| 1 | Upload Image | To check the photo format and store | All format should be stored | Proper photo should be displayed | Accepts photos of all formats along with document format |
| 2 | Auto Complete | To give suggestions related to typed term | Data should exist in database with related search term | Displays the suggestion lists as the user types the characters. | Suggestions are displayed as per the search term. |
| 3 | Auto Complete | Check the suggestions according to the access defined by the field | Data should exist in database with the search term and access level of the searched users. | Displays only the suggestions defined by the field. | Only those suggestions are being displayed that can be accessed by that field. |
| 4 | Batch | Batch to run on daily basis, to perform mail sending process. | Batch url must be there in batch table. | Mails should be sent to desired clients. | Mails are sent to desired clients, when batch runs. |

| | | | | | |
|---|--------------------------------------|--|---|---|---|
| 5 | Appreciate Module And Wish Module | To check if proper validation is done on all the fields by the reactive form | The user must have access for the appreciate and wish activity. | Error should be thrown at front end and if the api is accessed directly then error should be thrown from backend. Error should be Bad request with http status 400. | When the entered format was invalid for the form error was thrown from frontend. When the api was invoked through postman error was thrown from backend. |
| 6 | Spot Module | To check if proper validation is done on all the fields by the reactive form | The user must have access for the spot activity. | Error should be thrown at front end and if the api is accessed directly then error should be thrown from backend. Error should be Bad request with http status 400. | When the entered format was invalid for the form error was thrown from frontend. When the api was invoked through postman error was thrown from backend. |
| 7 | Appreciate Module And Wish Module | To check when appreciated and wished a proper feed is generated and entries in the database are done and | The sender and receiver both should have access for the appreciate and Wished activity. | The entries in the database should be done and feed and mail should be generated | The entries in the database are done and feed and mails are generated. |

| | | | | | |
|---|-------------------------------|---|--|--|---|
| | | mails are send. | | | |
| 8 | Spot Module | To check when spot is given a proper feed is generated and entries in the database are done and mails are send. | The sender and receiver both should have access for the spot and sender should have the points | The entries in the database should be done and feed and mail should be generated | The entries in the database are done and feed and mails are generated. |
| 9 | Batch for wishes, spot points | To check if when the batch runs it automatically wishes person with wish like birthday, automatically and feed is generate for it and points for spot are refreshed | Batch Url should be in the database | The feed should be generated for those wishes and points should be updated in the database and on the front end. | The feed was generated and the points were refreshed in the database and the front end. |

Table No. 5.1 List of Test Cases

Chapter 6

Conclusion

Myperks has been a far reaching prizes and acknowledgment stage, for inspiring the workers. Influence the intensity of Social, Mobile, Analytics, Cloud advances and Gamification.

Representative Recognition is fundamental. Everyone gets that part. What goes into making acknowledgment successful, in any case, is for the most part mystery. What's more, that isn't all terrible – in light of the fact that there is no layout for doing acknowledgment right.

So truly, acknowledgment is interesting to the organization, its work culture, its elements, and its esteem frameworks. Be that as it may, having said that, there are a couple of center perspectives that one should seriously think about while structuring the Rewards and Recognition program, which would go far in making acknowledgment progressively powerful and help in structure a culture of acknowledgment at the working environment. Myperks is a market head in India and works with in excess of 500 organizations crosswise over 63 nations.

Social Recognition

Genuine social acknowledgment is through the cover of giving, accepting and partaking in acknowledgment given to other people. Influence commonality and solace with social apparatuses in everyday existences of representatives to drive acknowledgment at the working environment.

Work process Automation

Our stage helps organizations drastically decline the outstanding task at hand of dealing with their Rewards and Recognition programs through computerization. Set up organization explicit rewards alongside remarkable endorsement work processes for each reward, mechanize administration commemoration grants and birthday wishes and distribute spending plans to Business Units or potentially People Managers.

Ongoing Analytics Dashboards

Access propelled drill down ability to see Organization, Business Unit right down to People Manager level measurements. Fare the information in graphical/spreadsheet groups for altered introductions.

Broad Global Redemption Catalog

Access to a huge list of blessing vouchers all inclusive, covering everything from product to encounters. Our profound combinations with driving brands comprehensively empowers us to convey voucher codes immediately to the beneficiaries.

Stage Integrations

Flawlessly coordinate with driving HRMS frameworks (for example Workday, Success Factors) for programmed information synchronization, SSO. We additionally coordinate with office cooperation stages (for example SharePoint, Yammer) and incorporate with intranets as well.

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