

Project Report

| | |
|----------------------------------|---|
| Product Name | Applied Degree in Software Engineering |
| Qualification Name (NICF) | Applied Degree in Software Engineering |
| Product Name | Design, develop and test the Community portal website |
| Module Name (NICF) | NICF-Application Implementation |

| Student Name | | Assessor name |
|----------------------|------------------------|----------------------|
| Chathushi Jayarathna | | MRS.Arvinde Kaur |
| Date issued | Completion date | Submitted on |
| 19/08/2022 | 24/08/2022 | 24/08/2022 |

| | |
|----------------------|---|
| Project title | Design, develop and test the Community portal website |
|----------------------|---|

| Learner declaration | |
|--|-------------------|
| I certify that the work submitted for this assignment is my own and research sources are fully acknowledged. | |
| Student signature : Chathushi | Date : 24/08/2022 |

AIM Project report

Table of Contents

| | | |
|------------|--|----|
| 1. | Project Background | 3 |
| 2. | Project Objectives | 3 |
| 3. | Project Scope | 4 |
| 3.1 | Features to Be Tested | 4 |
| 3.2 | Features Not to Be Tested | 4 |
| 3.3 | Deliverables | 5 |
| 4. | Tools and Platform | 6 |
| 5. | Project Requirement Specifications (SRS document) | 8 |
| a. | Functional Requirements | 9 |
| b. | Non-Functional Requirements | 9 |
| c. | Technical requirements | 11 |
| 6. | SDLC Model | 12 |
| 7. | Project Plan | 16 |
| 8. | Testing methods | 18 |
| ➤ | Functional Testing | 18 |
| a. | Unit testing | 18 |
| b. | UAT testing | 19 |
| ➤ | Non-Functional Testing | 20 |
| a. | Performance Testing | 20 |
| b. | Load Testing | 21 |
| c. | Usability Testing | 22 |

| | |
|--|-----------|
| 9. Optimal Scheduling..... | 23 |
| 10. Phase Test Plan..... | 25 |
| 11. UNIT and UAT Test Scripts | 27 |

Table of Figures

| | |
|---|----|
| Figure 1:Screenshot of Gantt Chart..... | 6 |
| Figure 2:Screenshot of Project Report | 7 |
| Figure 3:Screenshot of MS PowerPoint (Project Presentation) | 8 |
| Figure 4:Process of waterfall Model..... | 12 |
| Figure 5:Screenshot of Gantt Chart..... | 17 |
| Figure 6:Process of the Unit Testing..... | 18 |
| Figure 7:Process of UAT Testing | 19 |
| Figure 8:Screenshot of Performance Testing | 20 |
| Figure 9:Process of Load Testing | 21 |
| Figure 10:Process of Usability Testing..... | 22 |

1. Project Background

ABC Jobs Pte Ltd as a website developer to develop a community portal for Software Developers. The main purpose of this project is to create an application implementation plan. In this project, we ought to expand task control for this community process portal. ABC job portal is always decided to provide the according capability for users like as person interfaces, consumer database, and venture management for executing the full loss and profit cases also version-based totally users experience structures. In this situation, the mission is designed and evolved for the whole control of the undertaking, to perceive the person enjoy additionally trying out structures also the case looks at of the mission, and many more. Transient manner simplest occur as soon as and feature a selected period and are particular in that they are not habitual organizations however a hard and fast of strategies merchandise, effects, offerings, effects. on the centre of all of the projects lies the element of collaboration tools and communications, with all stakeholders, the customers, the assignment, the organization or maybe the wider network. To this quit, assignment control is where all methods meet, the significant cognizance point from which all approaches derive fiscally defined, scheduled, and, prepared following which they're communicated and, in the end, followed up on and evaluated.

2. Project Objectives

- In this system, we've got mentioned the whole price range and the loss received also undertaking handover and the whole-time duration system of the undertaking.
- we've mentioned most of the time several test instances and plans of fashions for which may be appropriately carried out and researched with each and real detail of each applied version of software program challenge control.

- we have also discussed the relation and duties of the task manager, QA supervisor additionally enterprise manager, and teams. Additionally, putting the scope for the nonstop reference to the customers and corporation for assuring the satisfactory service consistent with the price range of customers.
- At the belief of implementing the challenge control device make it less difficult to broaden the proper guided and reliable software program. imposing and presenting test cases like unit assessments and user reputation assessments ought to be outstanding enjoy for the consumer and also supplying help according to the client favored fashions like Waterfall version agile model v shape fashions additionally a tremendous viewpoint for the assignment control device

3. Project Scope

3.1 Features to Be Tested

1. Registration
2. Login
3. Reset Forgot Password
4. Logout
- 5. User Profile**
- 6. Update Profile**
7. Search result

3.2 Features Not to Be Tested

1. Posting Job
2. Applying Job
3. Send Messages
4. Post Messages on Message Board

5. Post Thread

3.3 Deliverables

✓ **Internal Project Deliverables**

- Initial design
- Time-tracking report
- Project budget report
- Progress report

✓ **External Project Deliverables**

- Progress Report
- Initial design
- Final design
- Final product

✓ **Process Deliverables**

- Internal bur report
- Internal Gantt chart
- Internal client onboarding checklist for a better project kick-off
- Initial design project management plan for clients to review

✓ **Product Deliverables**

- Fully-developed app
- Live-website
- Complete content strategy
- Finalize architecture

✓ **Project Deliverables**

- ABC Community portal web site
- Project Report Documentation
- Project Presentation

4.Tools and Platform

- **Project Libre – To create gantt chart**

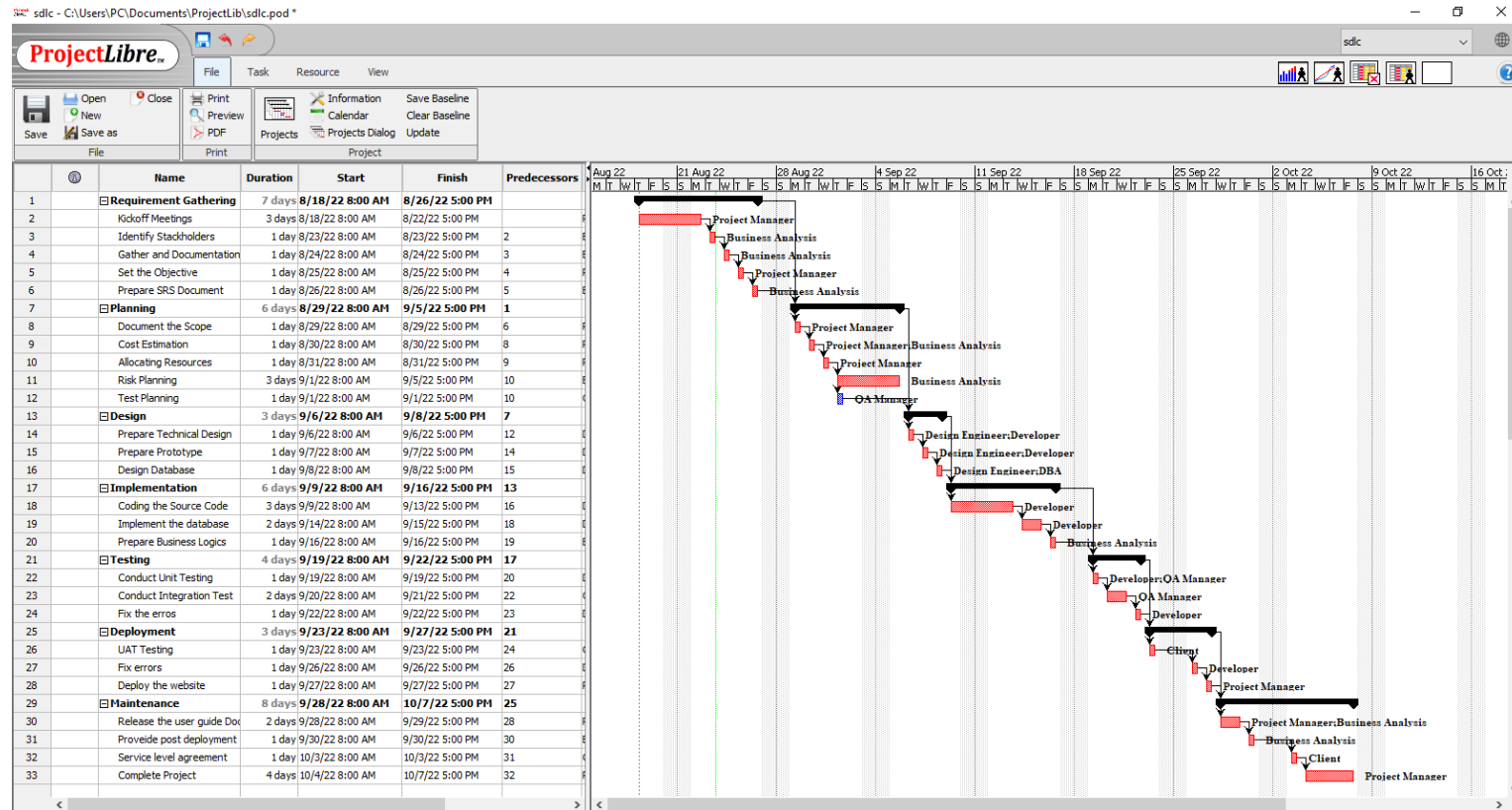


Figure 1:Screenshot of Gantt Chart

- **Microsoft Word – To create assignment documentation, project report**

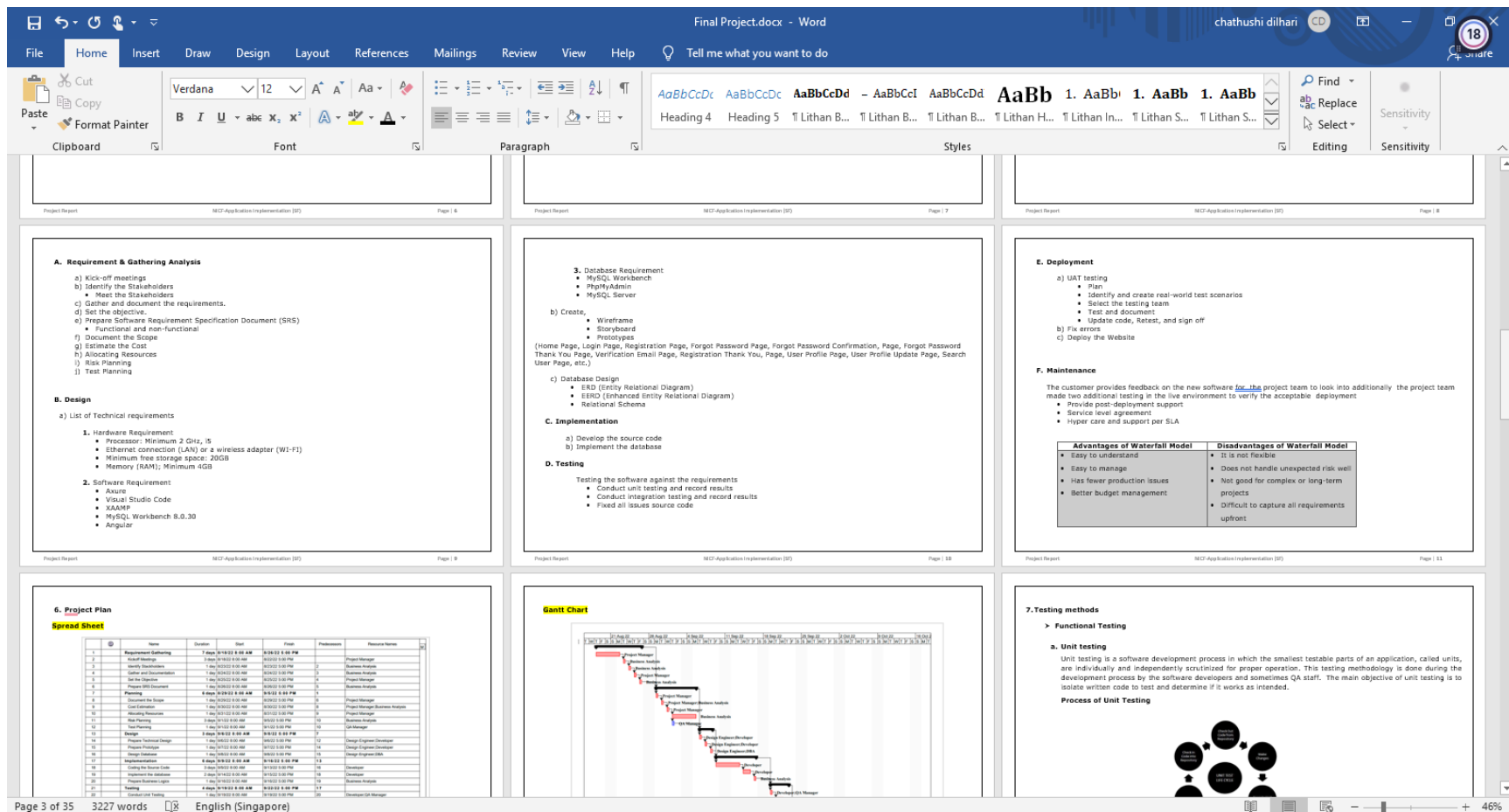


Figure 2: Screenshot of Project Report

- **Microsoft PowerPoint – To create a project presentation**

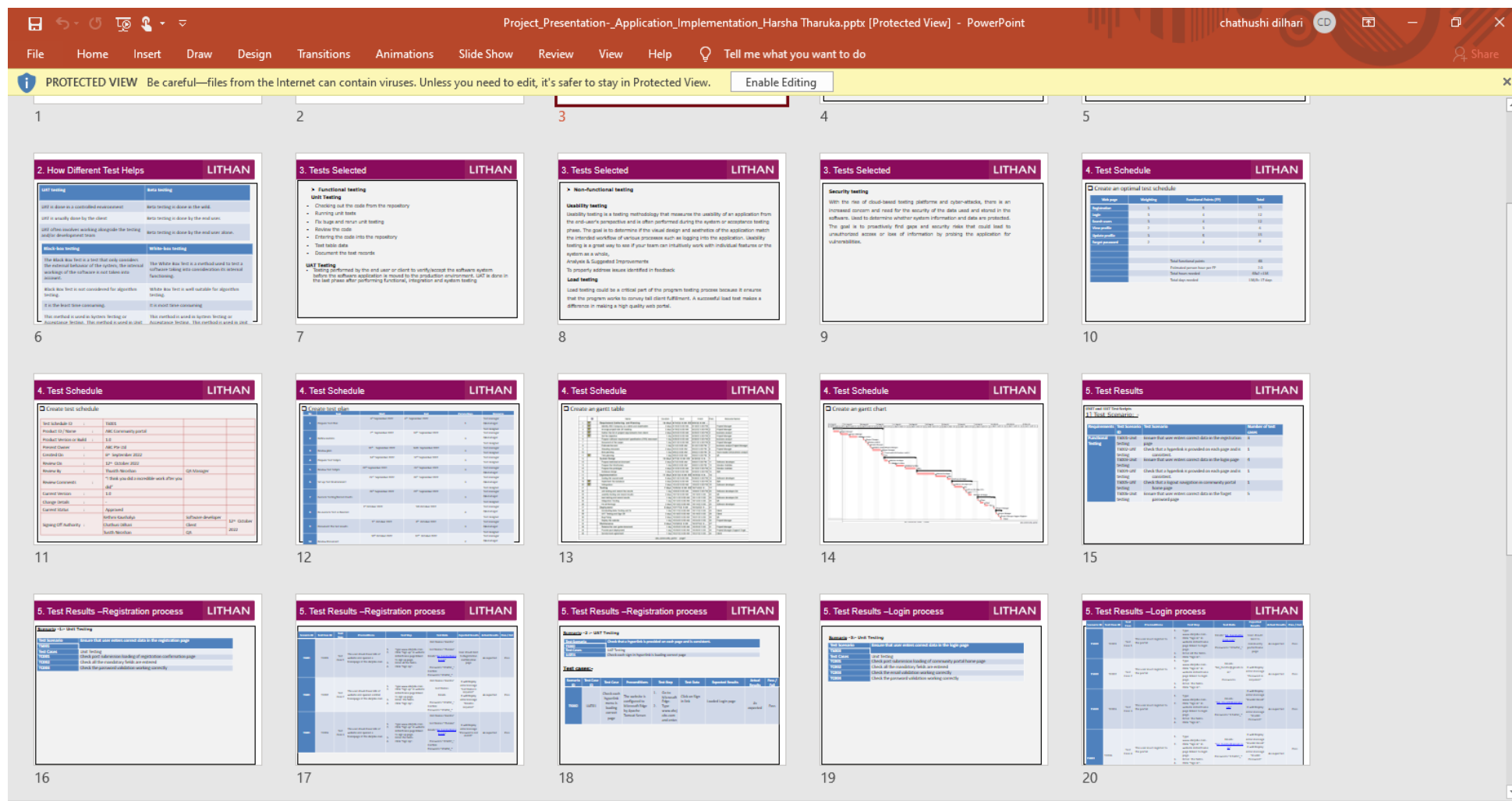


Figure 3: Screenshot of MS PowerPoint (Project Presentation)

5. Project Requirement Specifications (SRS document)

a. Functional Requirements

| No | Requirements | Web Page / Process | Field detail |
|----|---|---------------------------------------|---|
| 1 | Users can register their data on the signup page | Registration | Logo, Name, Email, Phone Number, Gender, Password, Sign up Button |
| 2 | Users can log in their data on the sign-in page | Login | Logo, Email Address, Password, Login Button |
| 3 | Users can reset their password on the forget password confirmation page | forget the password confirmation page | Logo, Rest Email Address |
| 4 | Users can read the message | Read message | Logo, Sender, receiver, Message |
| 5 | Users can send message | Send message | Logo, Sender, receiver, Message |
| 6 | Users can view their profile on the public profile page | Public profile | Full Name, Skills, Education, Favourites, Work, |
| 7 | Users can update their profile on the update profile page | Update profile | Full Name, Skills, Education, Favourites, Work, |
| 8 | Users can search their other users data on the search users page | Search users | Logo, search bar, button, copyright |
| 9 | Users can find their jobs on the job page | Job | Logo, Vacancies, Companies |
| 10 | Users can logout on the community portal home page | Log out | Logo, Logout |

b. Non-Functional Requirements

| No | Requirements | Purpose |
|-----------|---------------------|--|
| 1 | Performance | The landing page supports 3,000 users per quarter hour and all web pages should be loaded within 2 seconds |
| 2 | Availability | The server should be available in 24/7 |
| 3 | Security aspects | Must meet database security requirements. |
| 5 | Database backup | Need to backup the data after every data refresh |
| 6 | Usability | The error rate of users entering their details on the login page should not exceed 10 percent. |
| 7 | Scalability | The portal should be scalable enough to handle 1,0000 concurrent visits while maintaining optimal performance. |

c. **Technical requirements**

Hardware

- Processor: Minimum 2 GHz, i5
- Ethernet connection (LAN) or a wireless adapter (WI-FI)
- Minimum free storage space: 20GB
- Memory (RAM); Minimum 4GB

Software

- Axure RP 10
- Visual Studio Code
- XAAMP
- MySQL Workbench 8.0.30
- Angular
- Project Libre
- MS Word
- MS PowerPoint
- Command Prompt

Database

- MySQL Workbench
- PhpMyAdmin
- MySQL Server

6. SDLC Model

Waterfall Model

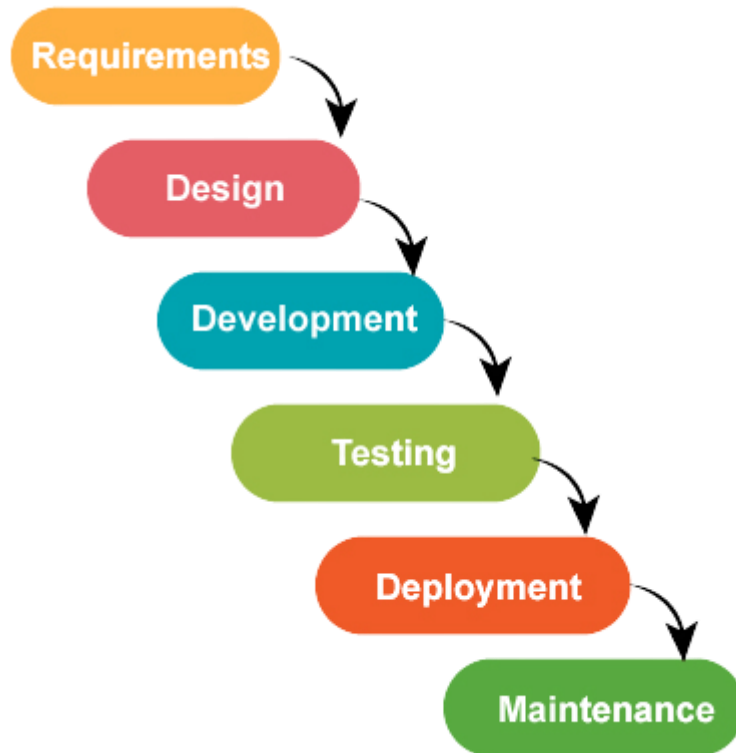


Figure 4: Process of waterfall Model

The waterfall method turned into the first SDLC version to be used broadly in Software Engineering to ensure the success of the assignment. In "The Waterfall" technique, the entire system of software program development is split into separate stages. In this Waterfall model, generally, the outcome of one segment acts as the input for the subsequent section sequentially.

A. Requirement & Gathering Analysis

- a) Kick-off meetings
- b) Identify the Stakeholders
 - Meet the Stakeholders
- c) Gather and document the requirements.
- d) Set the objective.
- e) Prepare Software Requirement Specification Document (SRS)
 - Functional and non-functional
- f) Document the Scope
- g) Estimate the Cost
- h) Allocating Resources
- i) Risk Planning
- j) Test Planning

B. Design

- a) List of Technical requirements
 - 1. Hardware Requirement**
 - Processor: Minimum 2 GHz, i5
 - Ethernet connection (LAN) or a wireless adapter (WI-FI)
 - Minimum free storage space: 20GB
 - Memory (RAM); Minimum 4GB
 - 2. Software Requirement**
 - Axure
 - Visual Studio Code
 - XAAMP

- MySQL Workbench 8.0.30
- Angular

3. Database Requirement

- MySQL Workbench
- PhpMyAdmin
- MySQL Server

b) Create,

- Wireframe
- Storyboard
- Prototypes

(Home Page, Login Page, Registration Page, Forgot Password Page, Forgot Password Confirmation, Page, Forgot Password Thank You Page, Verification Email Page, Registration Thank You, Page, User Profile Page, User Profile Update Page, Search User Page, etc.)

c) Database Design

- ERD (Entity Relational Diagram)
- EERD (Enhanced Entity Relational Diagram)
- Relational Schema

C. Implementation

a) Develop the source code

b) Implement the database

D. Testing

Testing the software against the requirements

- Conduct unit testing and record results
- Conduct integration testing and record results
- Fixed all issues source code

E. Deployment

- a) UAT testing
 - Plan
 - Identify and create real-world test scenarios
 - Select the testing team
 - Test and document
 - Update code, Retest, and sign off
- b) Fix errors
- c) Deploy the Website

F. Maintenance

-

The customer provides feedback on the new software for the project team to look into additionally the project team made two additional testing in the live environment to verify the acceptable deployment

- Provide post-deployment support
- Service level agreement
- Hyper care and support per SLA

| Advantages of Waterfall Model | Disadvantages of Waterfall Model |
|--|--|
| <ul style="list-style-type: none">• Easy to understand• Easy to manage• Has fewer production issues• Better budget management | <ul style="list-style-type: none">• It is not flexible• Does not handle unexpected risk well• Not good for complex or long-term projects• Difficult to capture all requirements upfront |

7. Project Plan

Spread Sheet

| | ① | Name | Duration | Start | Finish | Predecessors | Resource Names | M |
|----|---|---------------------------------|---------------|------------------------|------------------------|--------------|-----------------------------------|---|
| 1 | | Requirement Gathering | 7 days | 8/18/22 8:00 AM | 8/26/22 5:00 PM | | | |
| 2 | | Kickoff Meetings | 3 days | 8/18/22 8:00 AM | 8/22/22 5:00 PM | | Project Manager | |
| 3 | | Identify Stackholders | 1 day | 8/23/22 8:00 AM | 8/23/22 5:00 PM | 2 | Business Analysis | |
| 4 | | Gather and Documentation | 1 day | 8/24/22 8:00 AM | 8/24/22 5:00 PM | 3 | Business Analysis | |
| 5 | | Set the Objective | 1 day | 8/25/22 8:00 AM | 8/25/22 5:00 PM | 4 | Project Manager | |
| 6 | | Prepare SRS Document | 1 day | 8/26/22 8:00 AM | 8/26/22 5:00 PM | 5 | Business Analysis | |
| 7 | | Planning | 6 days | 8/29/22 8:00 AM | 9/5/22 5:00 PM | 1 | | |
| 8 | | Document the Scope | 1 day | 8/29/22 8:00 AM | 8/29/22 5:00 PM | 6 | Project Manager | |
| 9 | | Cost Estimation | 1 day | 8/30/22 8:00 AM | 8/30/22 5:00 PM | 8 | Project Manager;Business Analysis | |
| 10 | | Allocating Resources | 1 day | 8/31/22 8:00 AM | 8/31/22 5:00 PM | 9 | Project Manager | |
| 11 | | Risk Planning | 3 days | 9/1/22 8:00 AM | 9/5/22 5:00 PM | 10 | Business Analysis | |
| 12 | | Test Planning | 1 day | 9/1/22 8:00 AM | 9/1/22 5:00 PM | 10 | QA Manager | |
| 13 | | Design | 3 days | 9/6/22 8:00 AM | 9/8/22 5:00 PM | 7 | | |
| 14 | | Prepare Technical Design | 1 day | 9/6/22 8:00 AM | 9/6/22 5:00 PM | 12 | Design Engineer;Developer | |
| 15 | | Prepare Prototype | 1 day | 9/7/22 8:00 AM | 9/7/22 5:00 PM | 14 | Design Engineer;Developer | |
| 16 | | Design Database | 1 day | 9/8/22 8:00 AM | 9/8/22 5:00 PM | 15 | Design Engineer;DBA | |
| 17 | | Implementation | 6 days | 9/9/22 8:00 AM | 9/16/22 5:00 PM | 13 | | |
| 18 | | Coding the Source Code | 3 days | 9/9/22 8:00 AM | 9/13/22 5:00 PM | 16 | Developer | |
| 19 | | Implement the database | 2 days | 9/14/22 8:00 AM | 9/15/22 5:00 PM | 18 | Developer | |
| 20 | | Prepare Business Logics | 1 day | 9/16/22 8:00 AM | 9/16/22 5:00 PM | 19 | Business Analysis | |
| 21 | | Testing | 4 days | 9/19/22 8:00 AM | 9/22/22 5:00 PM | 17 | | |
| 22 | | Conduct Unit Testing | 1 day | 9/19/22 8:00 AM | 9/19/22 5:00 PM | 20 | Developer;QA Manager | |
| 23 | | Conduct Integration Test | 2 days | 9/20/22 8:00 AM | 9/21/22 5:00 PM | 22 | QA Manager | |
| 24 | | Fix the erros | 1 day | 9/22/22 8:00 AM | 9/22/22 5:00 PM | 23 | Developer | |
| 25 | | Deployment | 3 days | 9/23/22 8:00 AM | 9/27/22 5:00 PM | 21 | | |
| 26 | | UAT Testing | 1 day | 9/23/22 8:00 AM | 9/23/22 5:00 PM | 24 | Client | |
| 27 | | Fix errors | 1 day | 9/26/22 8:00 AM | 9/26/22 5:00 PM | 26 | Developer | |
| 28 | | Deploy the website | 1 day | 9/27/22 8:00 AM | 9/27/22 5:00 PM | 27 | Project Manager | |
| 29 | | Maintenance | 8 days | 9/28/22 8:00 AM | 10/7/22 5:00 PM | 25 | | |
| 30 | | Release the user guide Document | 2 days | 9/28/22 8:00 AM | 9/29/22 5:00 PM | 28 | Project Manager;Business Analysis | |
| 31 | | Provide post deployment | 1 day | 9/30/22 8:00 AM | 9/30/22 5:00 PM | 30 | Business Analysis | |
| 32 | | Service level agreement | 1 day | 10/3/22 8:00 AM | 10/3/22 5:00 PM | 31 | Client | |
| 33 | | Complete Project | 4 days | 10/4/22 8:00 AM | 10/7/22 5:00 PM | 32 | Project Manager | |

Gantt Chart

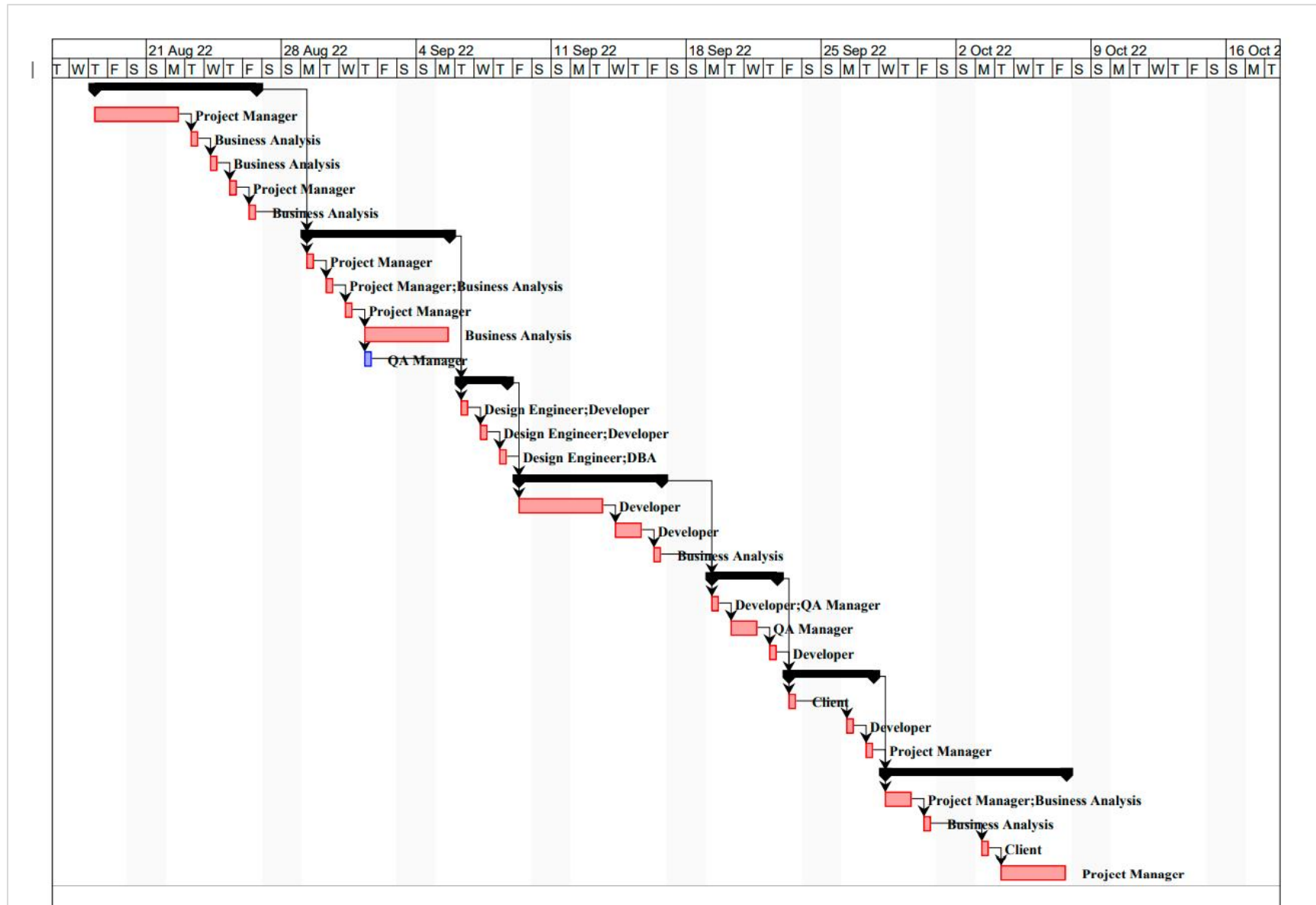


Figure 5: Screenshot of Gantt Chart

8. Testing methods

➤ Functional Testing

a. Unit testing

Unit testing is a software development process in which the smallest testable parts of an application, called units, are individually and independently scrutinized for proper operation. This testing methodology is done during the development process by the software developers and sometimes QA staff. The main objective of unit testing is to isolate written code to test and determine if it works as intended.

Process of Unit Testing

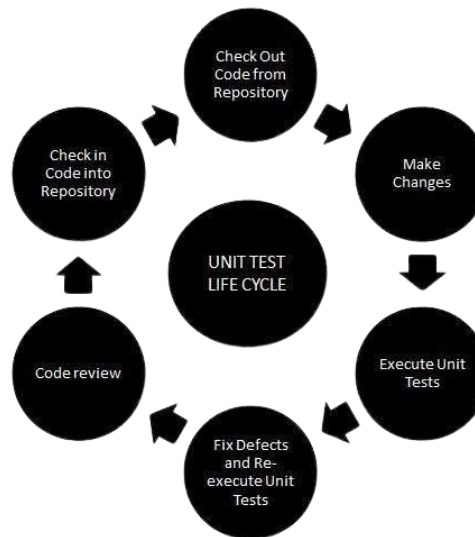


Figure 6: Process of the Unit Testing

b. UAT testing

UAT (User Acceptance Testing) is a type of testing performed by the end-user or the client to verify the software system before moving the software application to the production environment. UAT is done in the final phase of testing after functional, integration, and system testing is done

Process of UAT Testing



Figure 7: Process of UAT Testing

➤ Non-Functional Testing

a. Performance Testing

Overall performance testing is a form of software testing that guarantees software packages perform well underneath their anticipated workload. it's miles a trying out technique completed to determine device overall performance in phrases of sensitivity, reactivity, and balance under a particular workload.

performance testing is the procedure of studying the fine and capability of a product. it's far a checking out method carried out to determine the system performance in phrases of pace, reliability, and stability under varying workloads. overall performance trying out is also called Perf testing.

Process of Performance Testing

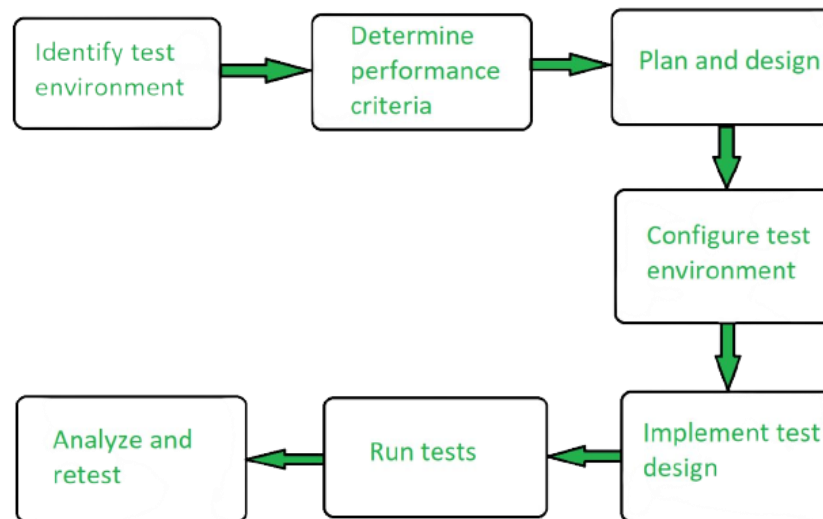


Figure 8: Screenshot of Performance Testing

b. Load Testing

Load testing is a sort of performance testing that determines the overall performance of a device, software product, or software utility below actual life primarily based on load conditions. basically, load testing determines the behavior of the utility while multiple users use it at the identical time. It is the reaction of the system measured under various load conditions. The burden testing is finished for regular and severe load conditions

Process of Load Testing

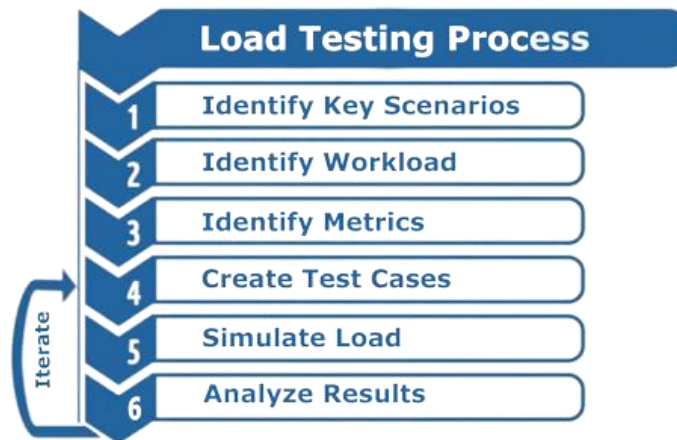


Figure 9:Process of Load Testing

c. Usability Testing

Usability testing additionally called user to enjoy(UX) trying out, is a testing method for measuring how easy and user-friendly a software program application is. A small set of goal quit-users, use software to show usability defects. Usability testing mainly specializes in a person's ease of the use of software, flexibility of utility to address controls, and potential of application to fulfil its goals.

Process of Usability Testing



Figure 10:Process of Usability Testing

9. Optimal Scheduling

| Web page | Weighting | Functional Points (FP) | Total |
|-----------------|-----------|-------------------------------------|-----------------------|
| Registration | 3 | 5 | 15 |
| Login | 3 | 4 | 12 |
| Search users | 3 | 4 | 12 |
| View profile | 2 | 3 | 6 |
| Update profile | 3 | 5 | 15 |
| Forget password | 2 | 4 | 8 |
| | | | |
| | | | |
| | | Total functional points | 68 |
| | | Estimated person hour per FP | 2.0 |
| | | Total hours needed | 68x2 =136 |
| | | Total days needed | 136/8= 17 days |

Test Schedule :

| | | | |
|---------------------------|----------------------|--|------------|
| Test Schedule ID : | TS001 | | |
| Product ID / Name : | ABC Community Portal | | |
| Product Version or Build: | 1.0 | | |
| Present Owner : | ABC PVT LTD | | |
| Created On : | 09/01/2022 | | |
| Review On : | 09/23/2022 | | |
| Review By : | Chathu | QA Manager | |
| Review Comments : | Good | | |
| Current Version : | 1.0 | | |
| Change Details : | Not Available | | |
| Current Status : | Approved | | |
| Signing Off Authority : | Kevin, Leo, Kara | Software Developer, QA Manager, Client | 10/07/2022 |

10. Phase Test Plan

| No | Task | Start | End | Person Days | Resource |
|----|-------------------------------|------------|------------|-------------|--|
| 1 | Prepare Test Plan | 09/01/2022 | 09/01/2022 | 1 | Test manager QA manager Developer/Designer |
| 2 | Define metrics | 08/19/2022 | 08/26/2022 | 7 | Test manager QA manager Developer/Designer |
| 3 | Review plan | 08/29/2022 | 08/31/2022 | 2 | Test manager QA manager |
| 4 | Prepare Test Scripts | 09/01/2022 | 09/01/2022 | 1 | Test manager QA manager Developer/Designer |
| 5 | Review Test Scripts | 09/02/2022 | 09/05/2022 | 3 | Test manager QA manager Developer/Designer |
| 6 | Set up Test Environment | 09/06/2022 | 09/09/2022 | 3 | Test manager Developer/Designer |
| 7 | Execute Testing/Record Faults | 09/10/2022 | 09/13/2022 | 3 | Test manager QA manager Developer/Designer |
| 8 | Re-execute Test as Needed | 09/14/2022 | 09/17/2022 | 3 | Test manager |

| | | | | | |
|-----------|---------------------------|------------|------------|---|--------------------|
| | | | | | QA manager |
| | | | | | Developer/Designer |
| 9 | Document the test results | 09/17/2022 | 09/20/2022 | 3 | Test manager |
| | | | | | QA manager |
| | | | | | Developer/Designer |
| 10 | Review Document | 09/20/2022 | 09/23/2022 | 3 | Test manager |
| | | | | | QA manager |

11. UNIT and UAT Test Scripts

Test Scenario

| Requirements | Test Scenario ID | Test Scenario | Number of test cases |
|--------------------|--------------------|---|----------------------|
| Functional Testing | TS001-Unit testing | Ensure that the user enters the correct data on the registration page (Registration Page) | 6 |
| | TS002-UAT testing | Check that a hyperlink is provided on the page and is consistent (Registration Page) | 1 |
| | TS003-Unit testing | Ensure that the user enters the correct data on the Login page (Login Page) | 5 |
| | TS004-UAT testing | Check that a hyperlink is provided on the page and is consistent (Login Page) | 1 |
| | TS005-Unit testing | Ensure that the user enters the correct data on the Forgot Password page (Forgot Password Page) | 1 |
| | TS006-UAT testing | Check that After resetting the password page will land a new page (Forgot Password Page) | 2 |

Scenario -1:- Unit Testing (Registration Page)

| | |
|----------------------|--|
| Test Scenario | Ensure that the user enters the correct data on the registration page |
| TS001 | |
| Test Cases | Unit Testing |
| TC001 | You need to create test case for check the mandatory fields validation without filling all the fields. |
| TC002 | Check the name validation working correctly |
| TC003 | Check the Email validation working correctly |
| TC004 | Check the Phone number validation working correctly |
| TC005 | Check the Password validation working correctly |
| TC006 | Check that the Password and repeat password are the same |

Test Cases

| Scenario ID | Test Case ID | Test Case | Preconditions | Test Step | Test Data | Expected Results | Actual Results | Pass / Fail |
|-------------|--------------|-------------|--|--|--|---|----------------|-------------|
| TS001 | TC001 | Test Case 1 | The user should have the URL of the website and open a homepage of the abcjobs.com | <ul style="list-style-type: none"> ❖ Type URL ❖ Click “Sign up” on the website home page linked to the registration page. ❖ Enter all the fields. <ul style="list-style-type: none"> • ❖ Click submit. | Full Name: Chathushi Jayarathna Email Address: chathushi77@gmail.com Phone Number: 0742269976 Select Gender: Female Password: 1234 Repeat Password: 12344444 | The user should land on the Registration page | As expected, | Pass |

| | | | | | | | | |
|-------|-------|-------------|--|--|---|---|--------------|------|
| TS001 | TC002 | Test case 2 | The user should have the URL of the website and open a homepage of the abcjobs.com | <ul style="list-style-type: none"> • ❖ Type URL • ❖ Click “Sign up” on the website home page linked to the registration page. • ❖ Enter all details except the name • ❖ Click submit. • | Full Name: Email Address: chathushi77@gmail.com Phone Number:0742269976 Select Gender: Female Password: 1234 Repeat Password:1234 | It will Display an error message “Name is required” | As expected, | pass |
| TS001 | TC003 | Test case 3 | The user should have the URL of the website and open a homepage of the abcjobs.com | <ul style="list-style-type: none"> • ❖ Type URL • ❖ Click “Sign up” on the website home page linked to the registration page. • • | Full Name: Chathushi Jayarathna Email Address: Phone Number:0742269976 Select Gender: Female Password: 1234 Repeat Password:1234 | It will Display an error message “Email is Required” | As expected, | pass |

| | | | | | | | | |
|-------|-------|-------------|--|---|---|--|--------------|------|
| | | | | <ul style="list-style-type: none"> ❖ Enter all the fields ❖ Enter all details except the email address • ❖ Click submit. • | | | | |
| TS001 | TC004 | Test case 4 | The user should have the URL of the website and open a homepage of the abcjobs.com | <ul style="list-style-type: none"> • ❖ Type URL ❖ Click “Sign up” on the website home page linked to the registration page. ❖ Enter all the fields except phone number • ❖ Click submit. • | Full Name: Chathushi Jayarathna Email Address: chathushi77@gmail.com Phone Number: Select Gender: Female Password: 1234 Repeat Password: 1234 | It will Display an error message “Phone Number is Required” | As expected, | Pass |
| TS001 | TC005 | Test case 5 | The user should have the URL of the website and | <ul style="list-style-type: none"> • ❖ Type URL | Full Name: Chathushi Jayarathna | It will Display an | As expected, | Pass |

| | | | | | | | | |
|-------|-------|-------------|--|--|---|--|--------------|------|
| | | | open a homepage of the abcjobs.com | <ul style="list-style-type: none"> ❖ Click “Sign up” on the website home page linked to the registration page. ❖ Enter all the fields except the password and repeat password <ul style="list-style-type: none"> • ❖ Click submit. <ul style="list-style-type: none"> • | Email Address: chathushi77@gmail.com Phone Number: Select Gender: Female Password: Repeat Password: | error message “Password is Required” | | |
| TS001 | TC006 | Test case 6 | The user should have the URL of the website and open a homepage of the abcjobs.com | <ul style="list-style-type: none"> • ❖ Type URL <ul style="list-style-type: none"> • ❖ Click “Sign up” on the website home page linked to the registration page. <ul style="list-style-type: none"> • • ❖ Enter all the fields | Full Name: Chathushi Jayarathna Email Address: chathushi77@gmail.com Phone Number:0742269976 Select Gender: Female Password: 1234 Repeat Password:12345 | It will Display an error message “Password Not Match” | As expected, | pass |

| | | | | | | | | |
|--|--|--|--|---|--|--|--|--|
| | | | | ❖ Enter incorrect repeat password • ❖ Click submit. • | | | | |
|--|--|--|--|---|--|--|--|--|

Scenario 2 – UAT Testing (Registration Page)

| | |
|----------------------|--|
| Test Scenario | Check that a hyperlink is provided on the page and is consistent. |
| TS002 | |
| Test Cases | UAT Testing |
| UAT01 | Check each sign in the hyperlink is loading the correct page |

Test Cases

| Scenario ID | Test Case ID | Test Case | Preconditions | Test Step | Test Data | Expected Results | Actual Results | Pass / Fail |
|-------------|--------------|--|--|--|--------------------------|---------------------------------|----------------|-------------|
| TS002 | UAT01 | Check hyperlink menu is loading the correct page | The website is configured to Microsoft Edge by Apache Tomcat Server. | 1. Go to Microsoft Edge. 2. Type www.abcjobs.com and enter. | Click on the Signup link | The Registration Page is Loaded | As expected, | Pass |

Scenario 3:- Unit Testing (Login Page)

| | |
|----------------------|---|
| Test Scenario | Ensure that the user enters the correct data on the Login page |
| TS003 | |
| Test Cases | Unit Testing |
| TC001 | Check all the mandatory fields are entered |
| TC002 | Check the Email validation working correctly |
| TC003 | Check the Password validation working correctly |
| TC004 | Check whether the Username name is correct or not |

TC005

Check whether the password is correct or not

Test Cases

| Scenario ID | Test Case ID | Test Case | Preconditions | Test Step | Test Data | Expected Results | Actual Results | Pass / Fail |
|-------------|--------------|-------------|---|--|---|---|----------------|-------------|
| TS003 | TC001 | Test Case 1 | The user should have the URL of the website and open a homepage of the abcjobs.com Register successfully | <ul style="list-style-type: none">❖ Type URL❖ Click "Login" on the website home page linked to the Login page.❖ Enter all the fields.❖ Click Login. | Email: chathushi77@gmail.com Password:1234 | The user should land on the user profile page | As expected, | Pass |
| TS003 | TC002 | Test case 2 | The user should have the URL of the website and open a homepage of the abcjobs.com Register Successfully | <ul style="list-style-type: none">❖ Type URL❖ Click "Login" on the website home page linked to the Login page.❖ Enter all the fields without email | Email: Password:1234 | It will Display an error message "Email is required" | As expected, | Pass |

| | | | | | | | | |
|-------|-------|-------------|--|---|--|--|--------------|------|
| | | | | <ul style="list-style-type: none"> ❖ Click Login. | | | | |
| TS003 | TC003 | Test case 3 | <p>The user should have the URL of the website and open a homepage of the abcjobs.com</p> <p>Register Successfully</p> | <ul style="list-style-type: none"> ❖ Type URL ❖ Click “Login” on the website home page linked to the Login page. ❖ Enter all the fields except the password • ❖ Click Login. | <p>Email: chathushi77gmail.com</p> <p>Password:</p> | <p>It will Display an error message</p> <p>“Password is required”</p> | As expected, | pass |
| TS003 | TC004 | Test case 4 | <p>The user should have the URL of the website and open a homepage of the abcjobs.com</p> <p>Register Successfully</p> | <ul style="list-style-type: none"> ❖ Type URL ❖ Click “Login” on the website home page linked to the Login page. ❖ Enter wrong email address • ❖ Click Login. | <p>Email: dil678@gmail.com</p> <p>Password: 1234</p> | <p>It will Display an error message</p> <p>“Enter Correct Email or Password”</p> | As expected, | Pass |

| | | | | | | | | |
|-------|-------|-------------|--|---|--|--|--------------|------|
| TS003 | TC005 | Test case 5 | <p>The user should have the URL of the website and open a homepage of the abcjobs.com</p> <p>Register Successfully</p> | <ul style="list-style-type: none"> ❖ Type URL ❖ Click “Login” on the website home page linked to the Login page. ❖ Enter the wrong password <ul style="list-style-type: none"> • ❖ Click Login. | <p>Email: chathushi77gmail.com</p> <p>Password: 7890</p> | <p>It will Display an error message</p> <p>“Enter the correct email or password”</p> | As expected, | pass |
|-------|-------|-------------|--|---|--|--|--------------|------|

Scenario -4 :- UAT Testing (Login Page)

| | |
|----------------------|--|
| Test Scenario | Check that a hyperlink is provided on the page and is consistent. |
| TS004 | |
| Test Cases | UAT Testing |
| UAT01 | Check log out hyperlink is loading the correct page |

Test Cases

| Scenario ID | Test Case ID | Test Case | Preconditions | Test Step | Test Data | Expected Results | Actual Results | Pass / Fail |
|-------------|--------------|-----------|---------------|-----------|-----------|------------------|----------------|-------------|
|-------------|--------------|-----------|---------------|-----------|-----------|------------------|----------------|-------------|

| | | | | | | | | |
|-------|-------|--|--|--|-------------------------|--------------------------|--------------|------|
| TS004 | UAT01 | Check hyperlink menu is loading the correct page | The website is configured to Microsoft Edge by Apache Tomcat Server. | 3. Go to Microsoft Edge. 4. Type www.abcjobs.com and enter. | Click on the Login link | The Login Page is Loaded | As expected, | Pass |
|-------|-------|--|--|--|-------------------------|--------------------------|--------------|------|

Scenario 5:- Unit Testing (Forgot Password Page)

| | |
|----------------------|---|
| Test Scenario | Ensure that the user enters the correct data in the Forgot Password page |
| TS005 | |
| Test Cases | Unit Testing |
| TC001 | Check all the mandatory fields are entered |

Test Cases

| Scenario ID | Test Case ID | Test Case | Preconditions | Test Step | Test Data | Expected Results | Actual Results | Pass / Fail |
|-------------|--------------|-------------|---|--|------------------------------|---|----------------|-------------|
| TS005 | TC001 | Test Case 1 | The user should have the URL of the website and open a homepage of the abcjobs.com Register Successfully | <ul style="list-style-type: none"> ❖ Type URL ❖ Click “Login” on the website home page linked to the Login page. ❖ Click “Forgot Password” on the Login Form ❖ Enter Email Address ❖ Click Reset Password | Email: chathushi77@gmail.com | The user should land on the verification page | As expected, | Pass |

Scenario 6: UAT Testing (Forgot Password Page)

| | |
|----------------------|--|
| Test Scenario | Ensure that the user enters the correct data on the registration page |
| TS006 | |
| Test Cases | Unit Testing |
| UAT01 | Check Email validations working correctly |
| UAT02 | Check Entered email is correct or not |

Test Cases

| Scenario ID | Test Case ID | Test Case | Preconditions | Test Step | Test Data | Expected Results | Actual Results | Pass / Fail |
|-------------|--------------|-------------|---|--|------------------------|---|----------------|-------------|
| TS006 | UAT01 | Test Case 1 | The user should have the URL of the website and open a homepage of the abcjobs.com Register Successfully | ❖ Type URL ❖ Click "Login" on the website home page linked to the Login page. ❖ Click "Forgot Password" on the Login Form 5. Click Reset Password | Email: | It will Display an error message "Email is Required" | As expected, | Pass |
| TS006 | UAT02 | Test Case 2 | The user should have the URL of the website and open a homepage of the abcjobs.com Register Successfully | ❖ Type URL ❖ Click "Login" on the website home page linked to the Login page. | Email:dil678@gmail.com | It will Display an error message "Incorrect Email Address" | As expected, | Pass |

| | | | | | | | | |
|--|--|--|--|--|--|--|--|--|
| | | | | <ul style="list-style-type: none"> ❖ Click “Forgot Password” on the Login Form ❖ Enter the wrong Email address ❖ Click Reset Password | | | | |
|--|--|--|--|--|--|--|--|--|