American International University-Bangladesh (AIUB)
Department of Computer Science
Faculty of Science &Technology (FST)
Spring, 22-23

Section: B
Software Quality Assurance and Testing

Job Onushondan

A Report Submitted By

SN	Student Name	Student ID
1	Kabyo Deb	19-40242-1
2	Rahul Das	19-40241-1
3	Md. Akib Ur Rahman	19-40279-1
4	Prosenjit Biswas	19-39637-1

Under the supervision of

ABHIJIT BHOWMIK
Associate Professor & Special Assistant [OSA], Computer Science

Software Test Plan

for

\<Job Onusondhan\>

Version 1.0 approved

Prepared by Kabyo deb

Md. Akib Ur Rahman

Rahul Das

Prosenjit Biswas
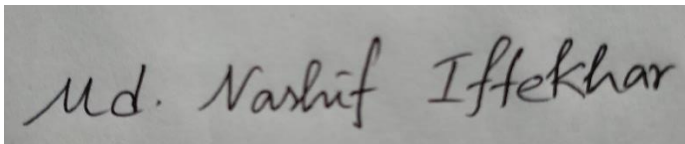
American International University-Bangladesh

\< 05.02.2023\>

Checked By Industry Personnel

Name: Nashif Iftekhar

Designation: Software Automation Engineer

Company: MarginEdge

Sign:

Date: 16/04/2023, 01/05/2023

Checked By Industry Personnel

Name: Mohammad Rafin

Designation: SQA Engineer

Company: Bit Mascot

Sign:

Date:

Conducting Meetings with Industry Persons:

Table of Contents

Revision History

Revision	Date	Updated by	Update Comments
0.1	2023.05.03	Kabyo Deb	First Draft
0.2	2023.08.03	Rahul Das	Second Draft
0.3	2023.28.03	Md. Akib Ur Rahman	Third Draft
0.4	2023.30.03	Prosenjit Biswas	Fourth Draft

1. TEST PLAN IDENTIFIER: RS-MTP01.3

2. REFERENCES

- https://www.techtarget.com/whatis/definition/AS-400-IBM-iSeries-AS-400e-eServer-iSeries-400
- https://origsoft.com/product-ibmi-test-data-management-solution/

3. INTRODUCTION

3.1 Background to the Problem

A part-time job is one of the best choices for students to earn their pocket money. The trend of doing part-time jobs for earning is gradually becoming popular among students in Bangladesh. Working part-time, students can bear the educational expenses & support their family, apart from just managing pocket money. Moreover, while doing part-time jobs, students can learn essential skills like: team management, teamwork & acquire knowledge as well. In our country there are many jobs portal available like: BD Jobs. But this job portals mainly focuses on full time jobs. So, finding part time jobs is a difficult task in these portals. The problem is that there is no specific job portal for part-time jobs. So, students had to face difficulties to find their desired part-time jobs.

Root cause of this problem and the importance to consider this problem
The root cause of this problem is no one cares that much about part-time job. All types of job portals in Bangladesh are working for full time jobs. This problem is so important to consider because nowadays doing part time jobs besides study is becoming trend among students. Different types of students have different types of working demand, like: some want to work as a volunteer, some want to do tuition, computer operator, research assistant and many more.

3.2 Solution to the Problem

We will develop a part time job portal to solve this problem. And this job portal only focuses on different types of part time jobs. By this project, we can make the connectivity between part-time job seeker and employer. Where employers can post for the job and employees can find the job easily. As our startup company only focuses on a particular sector which is nowadays very trending so there is highly possibility, we will be able to meet our desired business goal.

4. REQUEIREMNT SPECIFICATION

4.1 System Features

This app will have the following specifications/features:

1. **Signup feature**
   (Here user can give their Valid information like Name, Password, Email, Role Then Paymentmethod for Registration, and transaction number to sign up. So here we use some text boxes, and combo boxes to design this module)
   Priority Level: High
   Precondition: The user must enter the websites and click the Signup Option

2. **User Verification**
   (Here we send a verification number in the email to verify the Customer or user)
   Priority Level: High
   Precondition: The user must Provide a valid email when doing the registration.

3. **Login Feature for Existing Users**
   (Here users can log in to the System using their Username and Password. Here we use Two boxes in design)
   Priority Level: High
   Precondition: The user must Sign up in the System.

4. **User profile**
   (Here user can see All of the given information. Here we use some CSS design to beautification this page)
   Priority Level: High
   Precondition: The user must Log in to the System with a valid Id and Password

5. **Profile info. Update**
   (Here users can Update any information they need. They change their information and clickthe update button then all of the information will be changed)
   Priority Level: Medium

Precondition: The user must Log In to the system with a valid Id and Password.

6. View Subscription
(Here users can see the different types of subscriptions like monthly, Half yearly, and yearly)
Priority Level: Medium
Precondition: The user must Log In to the system with a valid Id and Password.

7. Make Payment
(Here user can Provide her Account numbers like Bkash, Nogod, Rocket, and Credit card and the system can send an OTP to their number. If the user put in the OTP number and provides the pin of their Account then a certain amount of money is deducted from their Account)

Priority Level: High
Precondition: The user must Log in to the System with a valid Account Number and select the appropriate package.

8. Submit Resume/CV
(Here user can submit their CV or Resume. So here is the option to select the file after selecting the file user can click the submit button then he can successfully upload her resume)
Priority Level: Medium
Precondition: The user must Log In to the system with a valid Id and Password.

9. Post job
(Here Employer can add her job advertisement. Here is an option that to upload a job notice or write job notice after successfully done all of the work employers can click the submit button to submit then the Register employee and other people can be available to see the advertisement)
Priority Level: High
Precondition: The user must Log In to the system with a valid Id and Password.

10. Apply for a job
(Here Employees can see the job advertisement. Each advertisement they're an option in to apply after clicking the apply the Application form is arrived and the employee need to fill up
this from and also here he can attach their cv)
Priority Level: High
Precondition: The user must Log In to the system with a valid Id and Password.

11. Withdraw Application
(If any employee and employer need to Withdraw their application then they use this option)

Priority Level: Medium
Precondition: The user must Log In to the system with a valid Id and Password.

12. Rate Job

(Here is an option to give feedback or rate the job so Employees can Rate the job if they are satisfied)
Priority Level: High
Precondition: The user must Log In to the system with a valid Id and Password.

13. Contact us
(Here we can use the website's authorized Email and phone number, Facebook Page Link, and Other Social Media link if anybody needs to contact us so they can use it)
Priority Level: Low
Precondition: The user needs to visit the websites.

14. History of Job
(Here Employees and Employer can see how many people are applying for jobs and how many people find the job through the website here we also provide the data of all jobs)
Priority Level: Low
Precondition: The user needs to visit the websites.

15.Log Out
(For clicking this option Users are Log of the website)
Priority Level: Medium
Precondition: The user must Log In to the system with a valid Id and Password.

16. Account Deletion
(If any user wants to delete their Profile so they can use this option to delete their   Account)
Priority Level: Medium
Precondition: The user must Log In to the system with a valid Id and Password.

4.2 System Quality Attributes

Our system ought to have some appropriate quality attribute that establishes our system standard. These quality attributes are listed below:

Efficiency: When the system is in running mode, it may use as few computational resources as possible.

Priority Level: Medium

Security: The system protects user data and prevents unauthorized access.

Priority Level: High

Usability: Users may easily learn how to use, operate, provide input, and interpret the output in our system with minimal effort.

Priority Level: Medium

Reliability: The system will provide the user with the necessary service without any major failure.

Priority Level: High

Modularity: Software that is highly modular enables designers to combine related components into a single module, improving the system's maintainability.

Priority Level: High

Maintainability: How much less effort is needed to find and fix an issue in an operational function in the program. Testability: How less effort is required to program to ensure that it performs its intended functions.

Priority Level: Medium

Flexibility: How less effort is required to modify an operational program.

Priority Level: Medium

Portability: the time and effort needed to transfer a program between hardware and/or software environments.

Priority Level: Medium
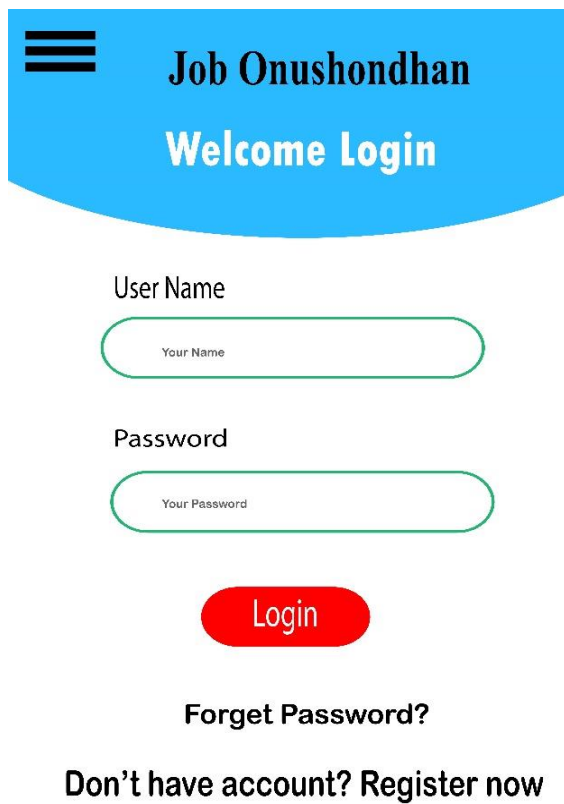
Reusability: The extent to which parts of a software system can be reused in other applications.

Priority Level: High

Interoperability: The effort required to couple one system with another.

Priority Level: High

4.3 System Interface

Fig: Login Page

Fig: Registration Page

Fig: Menu bar
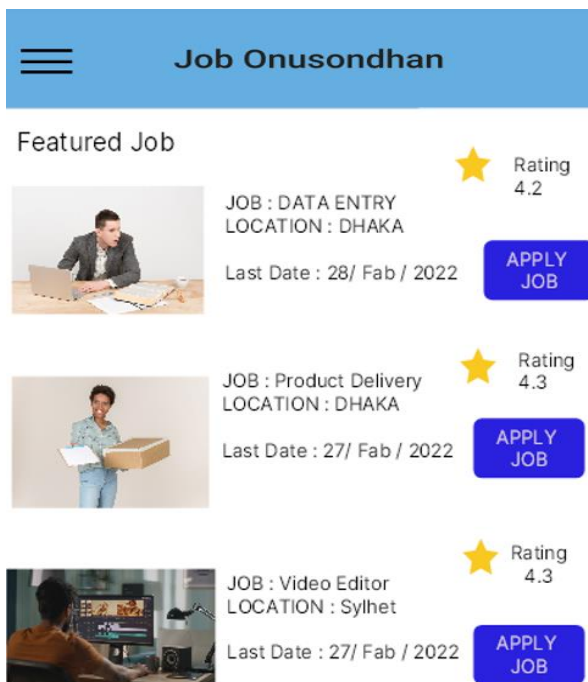
Fig: Feature Job Page
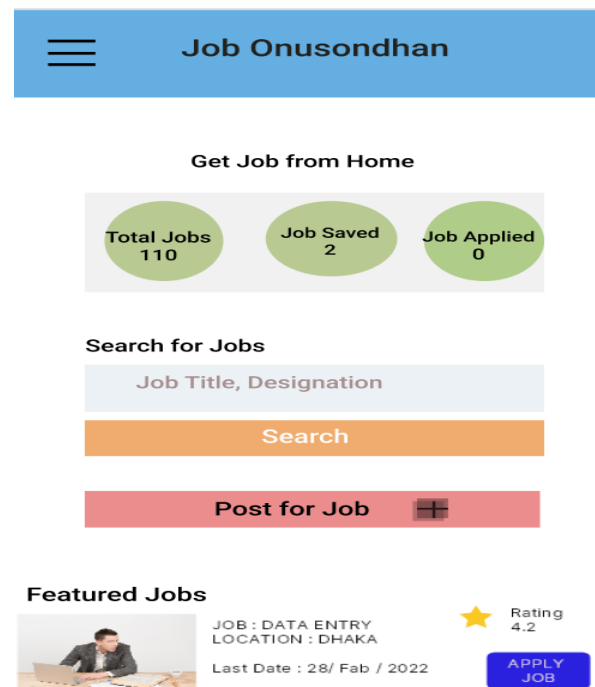
Fig: Job Searching Page

4.4 Project Requirements

Our primary goal in project management activity is to deliver the product on time, on budget, and with expected quality. The main challenges are Time, Cost, Scope, Resources, and Environment. We have to finish our work within the deadline, within budget and put the proper functionality into the system, should keep and manage the proper resources to do the work smoothly, and lastly, we need a good environment to work. If we handle all the constraints properly then we will find a good output.

- The software should not take up more than 70 MB of storage after installation.
- Although developers prefer Visual Studio code, they can also use alternative editors.
- Git will be the standard version control system and code management tool.
- The code will be stored on GitHub, where many developers will work together.
- Selenium will be used for unit testing.
- Interactive prototyping will be carried out using Figma.

Time Estimation:

5. COCOMO (CONSTRUCTIVE COST MODEL)

Task	SLOC
Page creation	1500
UI/UX design	1000
Content Creation	700
Security Module design	500
Application Upload design	350
Database Design	300
Total	4,350

SLOC = 4350

Coefficient = 2.4

P = 1.05
T = 0.38
Effort = PM = Coefficient$_{<Effort\ Factor>}$*(SLOC/1000)^P
Effort = PM = 2.4*(4350/1000)$^{1.05}$ = 11.23
Development time = DM = 2.50*(PM)^T

$=>$DM = 2.50*(11.23)$^{0.38}$ = 6.26
$=7$

Required number of people = ST = PM/DM = 11.23/7 = 1.60= 2

So there need Two programmers/Developers to implement this project.

Here we need 7 months to develop that project and each month there will be 20 working days and each day we work in 6 hours.

So, the Total time required for developing the project is 840 hours.

Resources and Development Cost:

Testing: We assume that we need 2 Quality Assurance engineers (one leader)

Maintaining: We assume that we need one Sr. Manager, One Sr. Analyst

Development Cost: We calculate this development budget for our assumption

In effort estimation, we find total development time is 7 months.

Total working days = 20*7= 140days = 140*6 = 840hourSalary per hour (Developer): 400 Taka

Testing Time (Assume) = 100-hourSalary

per hour(testing): 350 Taka

Salary (Developer)	740*400=296000 Taka
Salary (tester)	100*350= 35000Taka
Sr. Manager	80000 Taka
Sr. Analyst	60000 Taka

6. **Total cost: We assume that the total cost of our project is**

Development cost	471000 Taka
Requirement	20,000 Taka
Transportation	5000 Taka
Maintenance [for 6 months]	35000 Taka
Utility	7000 Taka
Training & Hardware	15000 Taka
Marketing (Advertisement)	35000 Taka
Marketing (promotion)	5000 Taka
Website Launch	3000 Taka
Review Cost	1500 Taka
Total	597500 Taka

So, the total cost of Making our project is 597500 Taka

Language & Database:

Programming Language: Java, C++, Dart. Mobile UI Framework: Flutter. Database: MySQL.

7. FEATURES NOT TO BE TESTED

The list of areas that won't be specifically tested is provided below:

- ➢ The ability to log out of several devices.
- ➢ Identification and validation of the device for future password-free logins.
- ➢ Portability across Windows and Mac systems also Android and iOS platforms.

8. TESTING APPROACH

6.1 Testing Levels

- We will divide our system testing phase into multiple stages, beginning with Unit testing and concluding with Acceptance testing. To conduct system/integration testing, we will assign at least one full-time independent test person. The majority of testing will be carried out by the test manager, with the participation of the development teams.
- **UNIT Testing:** During the UNIT Testing phase, the developer will conduct the testing and seek approval from the development team leader. The programmer must provide evidence of unit testing, such as a list of test cases, sample outputs, data printouts, and defect information, to the team leader before the testing is accepted and transferred to the test person. The test person will also receive all information related to unit testing.
- **SYSTEM/INTEGRATION Testing:** The SYSTEM/INTEGRATION Testing stage will be carried out by the test manager and development team leader, with support from individual developers as necessary. No dedicated test tools are accessible for this project. Programs will only enter the System/Integration testing phase after resolving all essential defects. However, a program may contain up to two Major defects as long as they do not obstruct the testing process.
- **ACCEPTANCE Testing:** During the ACCEPTANCE Testing phase, the end users will perform the testing with support from the test manager and development team leader. The acceptance test will run concurrently with the current manual ZIP/FAX process for one month following the completion of the System/Integration testing stage.

6.2 Test Tools

The system can be tested using IBM's iSeries, a midrange server series originally known as AS/400:

This testing service is assessing:

- Testing metrics analysis and decision making
- Tracking

- Communicates
- Quality compliance
- Analyzing defects

It can be combined with TestBench software for test data management and certified IBM iSeries, AS/400 solution.

6.3 Meetings

The test team will meet once a week to assess work to date and to identify trends and issues with errors as soon as feasible. Every two weeks, the project manager and the head of the test team will also meet. The dates for these two meetings will be separate weeks. In the event of an emergency, extra meetings may be called.

9. TEST CASES/TEST ITEMS

Project Name: Job Onusondhan	Test Designed by: Md Akib Ur Rahman
Test Case ID: JO_1	Test Designed date:24-04-23
Test Priority (Low, Medium, High): High	Test Executed by: Md Akib Ur Rahman
Module Name: Signup	Test Execution date: 26-04-23
Test Title: complete registration process with authentic information, such as email/phone.	
Description: Test the apps registration page whether the user can successfully register their information.	
Precondition (If any): User must have valid personal information.				

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app registration page 2. Enter name 3. Enter email /phone 4. Enter Nid number 5. Enter address 6. Enter password 7. Confirm password 8. Click on Register	Name: Akib Rahman Email: akib5448@gmail.com Nid: 4704721070 Address: Bashundhara R/A, block C, house 2. Password: Aki!@123	User should properly register their information.	As expected,	Pass

Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.

Project Name: Job Onusondhan	Test Designed by: Md Akib Ur Rahman
Test Case ID: JO_2	Test Designed date:24-04-23
Test Priority (Low, Medium, High): High	Test Executed by: Md Akib Ur Rahman
Module Name: User Verification	Test Execution date: 26-04-23
Test Title: Complete verification process with OTP.	
Description: Verify the email/phone with the OTP.	

Precondition (If any): User must have valid email/phone

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app registration page. 2. Enter email /phone 3. Click generate OTP 4. Check email/phone inbox 5. Provide the OTP in the Registration page.	Name: Akib Rahman Email: akib5448@gmail.com Nid: 4704721070 Address: Bashundhara R/A, block C, house 2. Password: Aki!@123	User should properly register their information.	As expected,	Pass

Post Condition: N/A

Project Name: Job Onusondhan			Test Designed by: Md Akib Ur Rahman	
Test Case ID: JO_3			Test Designed date:24-04-23	
Test Priority (Low, Medium, High): High			Test Executed by: Md Akib Ur Rahman	
Module Name: Login Feature			Test Execution date: 26-04-23	
Test Title: Verify the login feature with username and password.				
Description: Test app login page whether user gets warning when they input wrong password and gets new password when they click forget password button.				
Precondition (If any): User must have an account.				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page. 2. Type wrong email and password. 3. Click on Login. Click Forget Password button.	Email id: Akib@gmail.com Password: Ak7876	User should get waring and get the new password by providing OTP in email/phone.	As expected,	Pass
Post Condition: N/A				

Project Name: Job Onusondhan	Test Designed By: Md Akib Ur Rahman
Test Case ID: JO_4	Test Designed Data:24-04-23
Test Priority (Low, Medium, High): High	Test Executed By: Md Akib Ur Rahman
Module Name: User profile	Test Execution Date: 24-04-23
Test Title: Verify the accessibility of the user profile.	
Description: Test the profile option is functional or not	

Precondition (If Any): User should have valid username and password.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app Login page. 2. Put email and password and click on Login. 3. Click on Profile page	Email id: akib5448@gmail.com Password: Aki!@123	User should properly show all the user information.	As expected	Pass

Post Condition: User log activity should be tracked properly.

Project Name: Job Onusondhan	Test Designed By: Md Akib Ur Rahman
Test Case ID: JO_5	Test Designed Data:24-04-23
Test Priority (Low, Medium, High): High	Test Executed By: Md Akib Ur Rahman
Module Name: Profile info Update	Test Execution Date: 24-04-23
Test Title: Verify the accessibility of the profile update option.	
Description: Test the update profile page option is working properly or not	

Precondition (If Any): User should have valid username and password.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app Login page. 2. Put email and password and click on Login. 3. Click on Profile page 4. Click on Update profile 5. Provide the update information 6. Click on Update Profile	Email id: akib5448@gmail.com Password: Aki!@123	All information should updated properly.	As expected	Pass

Post Condition: User log activity should be tracked properly.

Project Name: Job Onushandhan	Test Designed By: kabyo deb
Test Case ID: JO_6	Test Designed Data: 15.04.2023
Test Priority (Low, Medium, High): Medium	Test Executed By: Akib ur Rahman
Module Name: View Subscription	Test Execution Date: 18.04.2023
Test Title: Verify the View Subscription option, first login using email and password then Select the subscription option and select the Package of monthly, half-yearly, and yearly.	
Description: Test the app Subscription page to see whether the user can successfully Select the Package to the application.	
The precondition (If Any): The user must have a login to the system and use the Proper information	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page 2. Enter email id 3. Enter the password 4. Click on Login 5. Select the Role 6. Select the View Subscription Option 7. Select the Package 8. Click the next Option to see the package Price.	Email id: kabyo@gmail.com Password: 2156956	Users should properly log in to their account and select the Subscription also Select the appropriate Package.	As expected	Pass

Post Condition: The user is validated with database and successfully registered into the application. The account session details are logged in the database.

Project Name: Job Onushandhan	Test Designed By: kabyo deb
Test Case ID: JO_7	Test Designed Data: 15.04.2023
Test Priority (Low, Medium, High): High	Test Executed By: Rahul das
Module Name: Make Payment	Test Execution Date: 18.04.2023
Test Title: Verify the Payment option, first login using email and password then Select the subscription package option and select the payment method, give the account information, and make the payment.	
Description: Test the app Payment page to see whether the user can successfully Payment to the application.	

The precondition (If Any): The user must have a login to the system and use the Proper information

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page 2. Enter email id 3. Enter the password 4. Click on Login 5. Select the Role 6. Select the view subscription option 7. Select the appropriate package 8. Select the Payment Option 9. Select the Payment Method 10. Give the Account Information 11. Give the OTP that is sent in the Mobile 12. Give the Pin number 13. Make the Payment.	Email id: kabyo@gmail.com Password: 2156956 Account No: 0175634543 OTP: 898945 PIN: 26745	Users should properly log in to their account and select the Package also successfully Make Payment.	As expected	Pass

Post Condition: The user is validated with database and successfully registered into the application. The account session details are logged in the database.

Project Name: Job Onushandhan	Test Designed By: Kabyo deb
Test Case ID: JO_8	Test Designed Data: 15.04.2023
Test Priority (Low, Medium, High): Medium	Test Executed By: Akib ur Rahman
Module Name: Submit CV/Resume	Test Execution Date: 18.04.2023
Test Title: Verify Submit CV/Resume Option	
Description: CV/Resume will be successfully uploaded and view it on websites.	
Precondition (If Any): User must have must log in the websites with proper information	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page 2. Enter email id 3. Enter password 4. Click on my profile 5. Click on submit CV/Resume option 6. Select the file from Devices 7. Click Submit Option	Email id: kabyo@gmail.com Password: 2156956	Users should properly log in to their account and enter their profile, select the CV/Resume, and submit it.	As expected	Pas

Post Condition: The user is validated with the database and successfully registered into the application. The account session details are logged in the database.

Project Name: Job Onushandhan	Test Designed By: kabyo deb
Test Case ID: JO_9	Test Designed Data: 15.04.2023
Test Priority (Low, Medium, High): High	Test Executed By: Akib ur Rahman
Module Name: Post Job	Test Execution Date: 18.04.2023
Test Title: Verify the Post job option, first login using email and password then Select the Post job option and post the circular.	
Description: Test the app Post job page to see whether the user can successfully Post job to the application.	

The precondition (If Any): The user must have login to the system and use the Proper information

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page 2. Enter email id 3. Enter the password 4. Click on Login 5. Select the Role 6. Click the post Job option 7. Select the File from the devices 8. Click the submit option	Email id: kabyo@gmail.com Password: 2156956	Users should properly log in to their account and select the Role also successfully Posted the job circular	As expected	Pass

Post Condition: The user is validated with the database and successfully registered into the application. The account session details are logged in the database.

Project Name: Job Onushandhan	Test Designed By: kabyo deb
Test Case ID: JO_10	Test Designed Data: 15.04.2023
Test Priority (Low, Medium, High): High	Test Executed By: Rahul Das
Module Name: Apply for Job	Test Execution Date: 18.04.2023
Test Title: Verify the Apply job option, first login using email and password then Select the Apply job option and submit the required information.	
Description: Test the app Apply job page to see whether the user can successfully Apply a job to the application.	

The precondition (If Any): The user must have a login to the system and use the Proper information

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page 2. Enter email id 3. Enter the password 4. Click on Login 5. Select the Role 6. Select the interested Job that is posted. 7. Click the Apply Job option 8. Give the Required information according to circular 9. Click the submit option	Email id: kabyo@gmail.com Password: 2156956	Users should properly log in to their account and select the Role also successfully select the job and apply for the job	As expected	Pass

Post Condition: The user is validated with the database and successfully registered into the application. The account session details are logged in the database.

Project Name: Job Onushandhan	Test Designed By: Prosenjit Biswas
Test Case ID: JO_11	Test Designed Data: 15.04.2023
Test Priority (Low, Medium, High): Medium	Test Executed By: Kabyo Deb
Module Name: Withdraw Application	Test Execution Date: 18.04.2023
Test Title: Verify the Withdraw option, first login using email and password then Select the withdraw job option and withdraw the application	
Description: Test the app withdraw job page to see whether the user can successfully withdraw the job to the application.	

The precondition (If Any): The user must have a login to the system and use the Proper information

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page 2. Enter email id 3. Enter the password 4. Click on Login 5. Select the Role 6. Select the Withdraw job option 7. Click the submit Option	Email id: biswas@gmail.com Password: 2156956	Users should properly log in to their account and select the Role also successfully Withdraw their Application or post.	As expected	Pass

Post Condition: The user is validated with database and successfully registered into the application. The account session details are logged in the database.

Project Name: Job Onushandhan	Test Designed By: Prosenjit Biswas
Test Case ID: JO_12	Test Designed Data: 15.04.2023
Test Priority (Low, Medium, High): High	Test Executed By: Kabyo Deb
Module Name: Rate Job	Test Execution Date: 18.04.2023
Test Title: Verify the Rate job option, first login using email and password then Select the Rate job option and submit the Feedback as well as a star rating.	
Description: Test the app Rate job page to see whether the user can successfully Rate the job to the application.	

The precondition (If Any): The user must have a login to the system and use the Proper information

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the app login page 2. Enter email id 3. Enter the password 4. Click on Login 5. Select the Role 6. Select the Give Feedback option 7. Write whatever the user thinks about jobs and websites. 8. Give the star Rating 9. Click the submit option	Email id: biswas@gmail.com Password: 2156956	Users should properly log in to their account and select the Role also successfully Give their feedback as well as a star Rating	As expected	Pass

Post Condition: The user is validated with database and successfully registered into the application. The account session details are logged in the database.

Project Name: Job Onusondhan	Test Designed By: Rahul Das
Test Case ID: FR_13	Test Designed Date: 15.04.2023
Test Priority (Low, Medium, High): Medium	Test Executed By: Kabyo Deb
Module Name: Contact Us	Test Execution Date: 18.04.2023
Test Title: User can contact us successfully for any information.	
Description: The user can successfully fill the contact us form and submit it.	

Precondition (If Any): The user is on the contact us page on the system.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Fill in the required fields of the contact us form such as email, name and message. 2. Click on the "Submit" button. 3. Confirmation message is displayed to the user indicating that their message has been received successfully.	Name: Karim Email: karim@gmail.com Message: hello!	The user should be able to fill in the required fields of the contact us form and submit it successfully without any errors.	As Expected	Pass

Post Condition: The user message is successfully received by the system and the application send the message to the information provider team.

Project Name: Job Onusondhan	Test Designed By: Rahul Das
Test Case ID: FR_14	Test Designed Date: 15.04.2023
Test Priority (Low, Medium, High): Medium	Test Executed By: Kabyo deb
Module Name: History of Job	Test Execution Date: 18.04.2023
Test Title: History of job displayed accurately.	
Description: Users can successfully access and see the job history.	

Precondition (If Any): Users can access the job history section of the application.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Navigate to the "Job History" section of the application. 2. Select a completed job from history. 3. Verify job detail page all information is displayed properly.	A list of completed jobs with historical data in the system.	Users Should be access the History of Job section successfully.	As expected	Pass

Post Condition:

Project Name: Job Onusondhan	Test Designed By: Rahul Das
Test Case ID: FR_15	Test Designed Date: 15.04.2023
Test Priority (Low, Medium, High): High	Test Executed By: Akib Ur Rahman
Module Name: Log Out	Test Execution Date: 18.04.2023
Test Title: Users logs out successfully.	
Description: Test the Logout page and check whether the users successfully Log Out from the application.	

Precondition (If Any): Users must be logged into the system.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Click on the "Log Out" button. 2. Verify that the user is redirected to the login page. 3. Verify that the user session is terminated and log out properly.	User credentials for login to the system.	Users should logout from the application successfully.	As expected	Pass

Post Condition: User can no longer access any feature and the application may display logout successfully message.

Project Name: Job Onusondhan	Test Designed By: Rahul Das
Test Case ID: FR_16	Test Designed Date: 15.04.2023
Test Priority (Low, Medium, High): Medium	Test Executed By: Prosenjit Biswas
Module Name: Account deletion	Test Execution Date: 18.04.2023
Test Title: deletion of user account.	
Description: Test account deletion whether user account properly delete from the application.	

Precondition (If Any): user account exists in the system and needs to be logged in and has the necessary permission for delete the account.

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to "Account setting" 2. Click the button "Delete account" 3. Confirm the deletion by entering the user password and click the "delete account" button again.	Username: rahul124 Password: 23eggf	User should successfully delete their account.	As expected	Pass

Post Condition: User's personal data, information, and record have been successfully removed from the system.

10. The DELIVERABLES

Acceptance test plan: Acceptance testing criteria, test cases, objectives, scope, approach, resources, and schedule are documented.

System/Integration test plan: System/Integration testing criteria, test cases, objectives, scope, approach, resources, and schedule are documented.

Screen prototypes: The layout and the design of the testing approach are documented.

Transmittal Reports for Test Items: Developers' handover report.

Test Logs: These are the outcomes of the tests.

Incident Reports: Unexpected outcomes are documented.

Investigation Report Logs: Incident Report Summary.

Test Summary Report: A report that summarizes the testing.

11. ITEM PASS/FAIL CRITERIA

Once all test cases have been completed successfully, the team leader will make recommendations based on the trial's outcomes. The software framework cannot be removed until all bugs have been identified, as there will always be some present in the final program. The decision to release the program and which tests to pass will be made by the test lead and project manager. If 98% of the test cases are successfully completed, the device can be removed.

Analyze Business Scenarios: All open incidents, as well as any closed incidents that have been deemed acceptable, are linked to the business scenarios. Both the technology impact and their ability to provide the functionality the business requires are assessed.

Assess the Business Impact of Each Open Incident: Next, the business impact of each open incident is evaluated. It is analyzed and kept track of how often business impacts occur as well as possible solutions like timetable adjustments and workarounds.

Decide if the analyses should be Accepted: The analyses are then evaluated to decide if they should be Accepted.

12. STAFFING AND TRAINING NEEDS

It is recommended that there be at least one inspector who is fully dedicated to the project, given its structure and distribution of stages. This person will need to be given some time at the beginning of the project to assess its needs and then will need to work full-time approximately six months later. If another tester is not available, the project/test manager will assume this role. To ensure a comprehensive and relevant study, the following preparation-related topics should be taken into account. The personnel for this project has been carefully chosen and assigned specific research tasks, which are discussed in detail in the section on responsibilities.

The developers and testers will need to be taught HTML, PHP, CSS, JavaScript, selenium, and MySQL.

Automation testers should gain the proper knowledge and also have the experience to operate the tools.

13. RESPONSIBILITIES

Name	Role	Responsibilities
MD. AKIB UR RAHMAN	Project Manager	1. Determines the priority and sequence of the issues that need to be resolved from the list. 2. The definition and execution of system/integration testing documentation will be determined. 3. The definition and execution of unit testing documentation will be determined. 4. Weekly review of all outstanding reports to identify any issues with interactions. 5. Acquire relevant materials to identify knowledge gaps related to any problems. 6. Review the prototype through screening and reporting.
KABYO DEB	Lead SQA Engineer	1. Defining the testing activities, including all test planning responsibilities. 2. Assessing whether all necessary resources are available to complete testing tasks. 3. Keeping project managers up to date on the status of testing operations on a regular basis and make a report on their testing actions.
RAHUL DAS	Test Engineer	1. Generate test cases and prioritize testing tasks. 2. Execute all test cases and report any issues that arise, while ensuring that the test lead is informed of all necessary testing resources. 3. Develop testing scenarios for use in testing. 4. Carry out the tests. Prepares test documentation and performs testing-related tasks. Create all kinds of test execution report with proper documentation.
Prosenjit Biswas	Software Developer	1. Conduct unit testing 2. Resolve problems and improve usability. 3. Work closely with the testing staff to ensure quality management.
Mr. Manik, Mr. Alamin, Mr. Junak	End-user	1.Participate in acceptance and beta testing. 2.Ensure the usability and the reliability of the system.

14. TESTING SCHEDULE

Here we have scheduled different activities for our software. We have estimated the time for documentation and design of test cases, then we have also estimated the time for different types of testing like unit and integration testing. Different activities are identified in different colors. We use "TeamGantt" tool for making the testing schedule.

Task Name / Weeks	1-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20
Documentation	■									
Design	■									
Test Plan	■	■								
Unit Testing		■	■							
Integration Testing			■	■						
System testing			■	■	■	■				
Usability testing				■						
Security testing					■					
Performance testing						■				
Beta testing							■	■		
Acceptance testing								■	■	
Load & Stress Testing									■	■
Feedback										■

Table: Estimated Schedule for the project

15. PLANNING RISKS AND CONTINGENCIES

- **Risks Planning**

As part of software risk management, technical, programmatic, and procedural risks are identified and categorized. From there, a plan is created that links each to a mitigation strategy. Risk is monitored by the project manager at all times. If any do, one owner specifically takes mitigating action.

- ➢ **Lack of encrypted data:** Keep an eye on security and highly encrypt your data backups.
- ➢ **Attempt unauthorized access:** Consecutively three failed login attempts in an hour, the user will be restricted.
- ➢ **Error in Functionalities:** Regularly test the application and make a daily backup.
- ➢ **Wrong SQL Command for Sensitive Data:** Keep security scans and backups up to date.

- **Contingency Planning**

In project management, a contingency plan is a predetermined, executable strategy that should be used if a risk that has been recognized materializes. It serves as sort of a "Plan B" for when things don't turn out as planned.

- ➢ **Power outages:** We can face load shedding that's why we need to always ready a backup power source.
- ➢ **Network Failure:** We will set up two fiber optic connections from various ISPs, one of which will act as a backup for the other.

16. APROVALS

Position	Assigned
Project Sponsor	Kabyo Deb
Development Management	Md. Akibur Rahman
EDI Project Manager	Prosenjit Biswas
RS Test Manager	Rahul Das

RS Development Team Manager	Prosenjit Biswas
Reassigned Sales	Kabyo Deb
Order Entry EDI Team Manager	Rahul Das