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

Section: C
Software Quality Assurance and Testing

Legal Search

Team Name: Error Crushers

A Report submitted.
By

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Under the supervision of

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Faculty Designation
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Software Test Plan

for

Legal Search

Version 1.0 approved.

Prepared by

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Mst Munjuma Akter

Nouroj Amin

American International University-Bangladesh

22 August 2023

Checked By Industry Personnel

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Sign: Signed

Date: 22.08.2023

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Revision History

Revision	Date	Updated by	Update Comments
0.1	01.05.2023	MD Salman Hossain	First Draft
0.2	16.05.2023	Nouroj Amin	Second Draft
0.3	29.05.2023	MD Salman Hossain	Third Draft
0.4	10.06.2023	Nouroj Amin	Fourth Draft
0.5	25.06.2023	Nouroj Amin	Fifth Draft
0.6	04.07.2023	MD Salman Hossain	Sixth Draft
0.7	15.07.2023	Mst Munjuma Akter	Seventh Draft
0.8	27.07.2023	MD Salman Hossain	Eighth Draft
0.9	06.08.2023	Nouroj Amin	Ninth Draft
1.0	16.08.2023	Mst Munjuma Akter	Tenth Draft

1. TEST PLAN IDENTIFIER:RS-MTP01.3

2. **REFERENCES**

   o http://www.tutorialspoint.com
   o https://www.softwaretestinghelp.com
   o https://blog.qasource.com
   o http://www.javatpoint.com
   o http://www.geeksforgeeks.org

3. **INTRODUCTION**

   Background to the Problem

   The process of hiring legal professionals has traditionally been a complex and time-consuming endeavor, marked by challenges in accessibility, transparency, and efficiency. Clients seeking legal assistance often encounter difficulties in locating qualified lawyers who match their specific needs, and the lack of a user-friendly platform minimizing these challenges.

   To address these issues, the proposed lawyer hiring website aims to revolutionize the legal industry by providing a comprehensive, accessible, and transparent platform that bridges the gap between clients and legal professionals. By harnessing technology, this platform will empower clients to efficiently locate and engage qualified lawyers who specialize in their specific legal needs. The website will enable lawyers to highlight their expertise, foster trust through client reviews, and provide transparent fee structures, thereby transforming the process of hiring legal professionals into a seamless and user-friendly experience for all parties involved.

   In summary, the problem at hand is the lack of an accessible and efficient digital solution for hiring legal professionals. This gap prevents clients from easily connecting with qualified lawyers and leaves legal experts struggling to expand their reach and visibility. The Legal Search website seeks to address these challenges and reshape the legal industry by creating a platform that empowers both clients and lawyers, fostering transparent communication, trust, and accessibility in the pursuit of legal representation.

Solution to the Problem:

The proposed solution entails the development of an innovative and user-centric lawyer hiring website that revolutionizes the process of connecting clients with qualified legal professionals. This platform will serve as a comprehensive digital ecosystem designed to address the accessibility, transparency, and efficiency challenges currently faced by individuals seeking legal representation.

The website will boast an intuitive and user-friendly interface, enabling clients to easily search for and connect with lawyers who specialize in their specific legal needs. Legal professionals will have the opportunity to create detailed profiles showcasing their expertise, practice areas, years of experience, and relevant qualifications. he platform will enable clients to provide reviews and ratings based on their experiences with legal professionals. These testimonials will enhance transparency and accountability, fostering a culture of trust and credibility within the legal community. The website will be responsive and mobile-friendly, ensuring that users can access and utilize the platform seamlessly from various devices.

By creating a dynamic and user-centric lawyer hiring website, this solution aims to transform the traditional legal landscape by democratizing access to legal representation. The platform's innovative features will empower clients to make informed decisions, connect with specialized legal professionals, and navigate the legal process with confidence. Simultaneously, legal experts will benefit from increased visibility, expanded client reach, and a more efficient means of connecting with potential clients. Ultimately, this solution seeks to reshape the way legal services are accessed, hired, and delivered, fostering transparency, accessibility, and trust within the legal industry.

4. REQUEIREMNT SPECIFICATION

4.1 System Features

1. System Registration
Functional Requirements
1.1 The software shall allow users to register themselves with their proper name, email, date of birth, gender, and password.
1.2 If the inserted data has been invalid, then the system will not allow user to register.
1.3 If all the data is valid then all the data from user will be stored in the database.

Priority Level: Medium

Precondition: None

2. System Login

Functional Requirements

2.1 The software shall allow users to login with their given username and password.

2.2 If the username and/or password has been inserted wrong more than three times, the random verification code will be generated by the system to retry login.

Priority Level: High

Precondition: user have valid user id and password.

3. Search and Filter Lawyers

Functional Requirements

3.1 Users can search for lawyers.

3.2 Based on practice areas, location, language, specialization, and other relevant criteria.

3.3 Users can view detailed profiles of lawyers, including practice areas, qualifications, experience, reviews, and fee structures.

Priority Level: High

Precondition: user must be logged in.

4. Update Profile

Functional Requirements

4.1 The software shall allow users to update his/her profile with name, email, date of birth, and gender.

4.2 If the any data has been inserted wrong then the system won't allow us to update profile, password can't be changed for security purposes.

4.3 If all the input data is valid then the updated profile of the user will be stored in the database.

Priority Level: Medium

Precondition: user must be logged in.

5. Submit Legal Requests

Functional Requirements

5.1 Users can submit legal requests, outlining their legal needs and requirements, to lawyers of their choice.

5.2 The submitted legal requests will serve as a basis for lawyers to evaluate the scope of work, determine the feasibility of providing assistance, and respond to users with tailored proposals or suggestions.

Priority Level: Medium
Precondition: User must be logged in.

6. Review and Ratings

Functional Requirements

6.1 Users can provide reviews and ratings for lawyers based on their experience and satisfaction.

6.2 The accumulation of client reviews and ratings contributes to a transparent and informative environment, helping other users make informed decisions when selecting a lawyer.

Priority Level: Medium
Precondition: The user must have engaged with a lawyer's services.

7. Appointment Scheduling

Functional Requirements

7.1 Users can schedule appointments and consultations with lawyers based on availability.

7.2 Once an appointment is scheduled, both users and lawyers will receive notifications and reminders, ensuring timely and efficient communication.

Priority Level: Medium
Precondition: The user must have engaged with a lawyer's services.

8. Communication Portal

Functional Requirements

8.1 Users can communicate directly with lawyers through an integrated messaging system to discuss legal matters.

8.2 Users and lawyers can engage in discussions, share information, clarify queries, and exchange documents or relevant details related to the legal matter.

Priority Level: High
Precondition: The user must have engaged with a lawyer's services.

9. Payment Integration
Functional Requirements

9.1 To facilitate seamless transactions between users and lawyers, the platform will integrate a secure online payment system.

9.2 Users can make secure online payments for legal services directly through the platform.

Priority Level: Low
Precondition: The user must be logged in.

10. Legal Expert Verification
Functional Requirements

10.1 To facilitate seamless transactions between users and lawyers, the platform will integrate a secure online payment system.

10.2 Lawyers' qualifications and credentials are verified before their profiles are published on the platform.

Priority Level: Medium
Precondition: Lawyers must provide valid credentials and proof of legal practice.

11. Legal Resources
Functional Requirements

11.1 The platform may provide legal resources, articles, and a blog section to educate users about legal matters.

11.2 Users will be able to visit this section without logging in.

Priority Level: Low
Precondition: None

12. Legal Resource Library

Functional Requirements

12.1 The platform shall provide a comprehensive legal resource library featuring articles, guides, and educational content.

12.2 Users can access articles, guides, FAQs, and informative content related to various legal topics.

Priority Level: Medium
Precondition: None

13. Expert Q&A Forum

Functional Requirements

13.1 The platform shall include an expert Q&A forum where users can seek advice and insights from legal professionals.

13.2 Lawyers on the platform will have the opportunity to respond to user inquiries, share insights, and provide general legal guidance.

Priority Level: Low
Precondition: None

14. User Notifications and Reminders

Functional Requirements

14.1 The platform shall send notifications and reminders to users for appointments, messages, and legal requests.

14.2 These notifications will ensure that users stay informed, stay organized, and never miss important interactions or updates.

Priority Level: Medium
Precondition: The user must be logged in.

15. Legal Document Upload and Sharing

Functional Requirements

15.1 Users shall have the ability to upload and share legal documents securely with lawyers.

15.2 This functionality simplifies document exchange, facilitates collaboration, and ensures that sensitive legal information is shared within a protected environment.

Priority Level: Medium

Precondition: User must have engaged with a lawyer's services.

16. Secure Transaction Processing

Functional Requirements

16.1 The platform shall facilitate secure and encrypted online transactions for legal services.

16.2 The system will encrypt sensitive payment information, such as credit card details, to prevent unauthorized access and protect user data from potential breaches. By providing a secure environment for financial transactions, the platform aims to instill confidence and trust among users when making payments for legal services.

Priority Level: High

Precondition: User must have engaged with a lawyer's services.

4.2 System Quality Attributes

o List down the quality attributes that describe how well the system should perform.

QA1: Portability: The software must be capable of running in any platform or operating system. Such as Windows, Linux, Android, Apple, and so on.

> **Priority level:** High
> **Precondition:** N/A
> **Cross-reference:** QA2

QA2: Reusability: The software's function should be created in such way that those function can be used in any other software.

> **Priority level:** Low
> **Precondition:** N/A

Cross-reference: QA1, QA4

QA3. Availability: The system shall be at least 97.5 percent available everyday between 5.00 a.m. and 12.00 pm local time, and at least 99.5 percent available on weekdays between 8.00 am and 12.00 pm local time.

Priority level: High
Precondition: N/A
Cross-reference: N/A

QA4. Integrity: Only admin and editor have access to view user's information.

Priority level: High
Precondition: User must register him/herself.
Cross-reference: QA2

4.3 System Interface

Use Case Diagram:
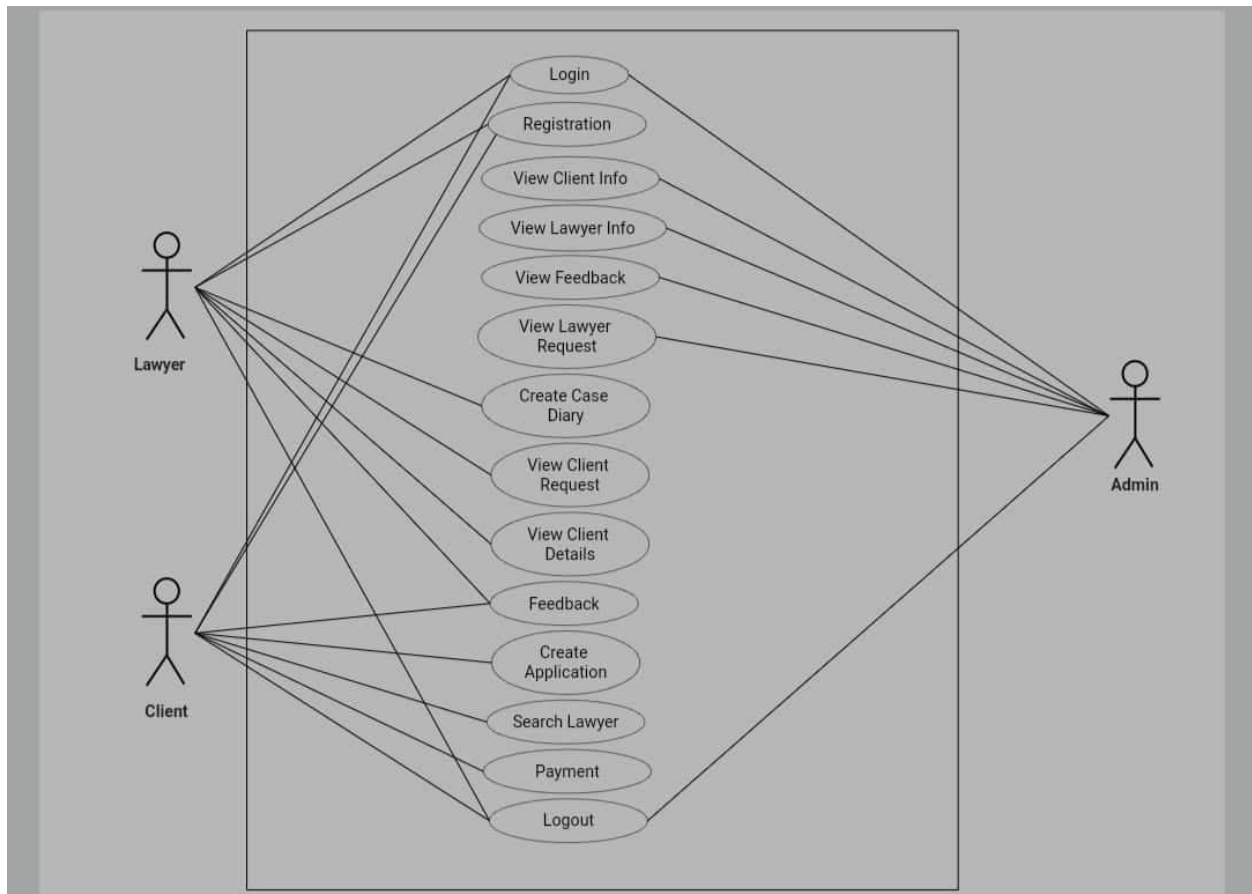
State Chart Diagram:
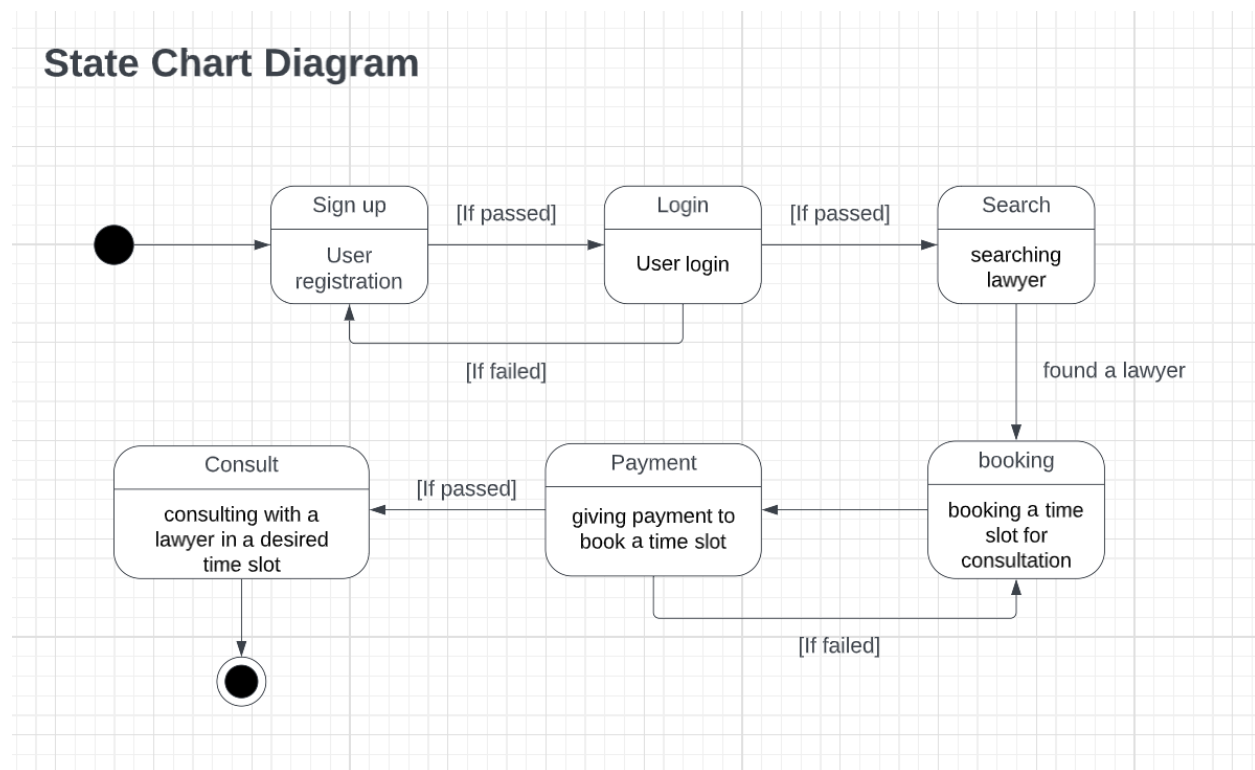
4.4 Project Requirements

o **Time:** We require 5 months to complete this project.
o **Budget**: We need BDT 1000,000 to create this software
  Breakdown of budget:

        Salaries: BDT 400,000 (40%)

        Equipment: BDT 200,000 (20%)

        Travel: BDT 100,000 (10%)

        Miscellaneous: BDT 100,000 (10%)

- **Salaries:** The salaries budget is the largest budget item, accounting for 50% of the total budget. This is because the project will require a team of experienced software developers, testers, and other staff to complete the work. The salaries budget will cover the cost of their salaries, benefits, and taxes.
- **Equipment:** The equipment budget will cover the cost of purchasing or renting computers, software licenses, and other equipment that will be needed for the project. This includes laptops, desktops, servers, software licenses, and other hardware and software that will be used to develop, test, and deploy the software.
- **Travel:** The travel budget will cover the cost of travel for the project team to attend conferences, meet with clients, and conduct research. This includes airfare, hotel accommodations, and meals.
- **Miscellaneous:** The miscellaneous budget will cover the cost of unexpected expenses that may arise during the project. This includes things like office supplies, printing costs, and other miscellaneous expenses.

- **Resources:** We need 12 developers to complete this project.

    Developers: As you mentioned, the project will need 12 developers to complete the work. These developers should have a variety of skills and experience, including:

    - Front-end development
    - Back-end development
    - Database development
    - Software testing

    QA Engineers: The project will also need a team of QA engineers to test the software and ensure that it is free of bugs. These engineers should have experience in testing software for a variety of platforms and devices.

    Project Manager: The project will need a project manager to oversee the development process and ensure that the project stays on track. The project manager should have experience in managing software development projects and working with a variety of stakeholders.

    Other Staff: In addition to developers, QA engineers, and a project manager, the project may also need other staff members, such as:

    - Business analysts
    - Technical writers
    - Graphic designers
    - User experience designers

- o **Environment:**

  Office space: The project will need an office space that is big enough to fit 12-15 people. The office space should be well-lit and ventilated, and it should have enough space for desks, chairs, and other furniture. The office space should also have a meeting room, a kitchen, and a bathroom.

  A coworking space: Coworking spaces are typically rented monthly and offer a variety of amenities, such as shared workspaces, meeting rooms, and printers.

  A serviced office: Serviced offices are like coworking spaces, but they offer more privacy and amenities, such as dedicated desks, phone lines, and receptionist services.

  A rented office space: Renting an office space can be a good option for businesses that need a lot of space or that want more control over their environment. However, it can be more expensive than coworking or serviced offices.

5. FEATURES NOT TO BE TESTED

The following is a list of the areas that will not be specifically addressed. All testing in these areas will be indirect because of other testing efforts:

- o Create editor.
- o Change password of the user.
- o Searching for any post/user.
- o live Transection
- o File sharing
- o Rating
- o Chat
- o Analytics
- o privacy settings

6. TESTING APPROACH

6.1 Testing Levels

- o **UNIT Testing:** During our unit testing, we conducted test on individual software module and check for any errors. This testing will be conducted by the developer and will be approved by the development team leader. The goal is to verify that each unit of code functions as intended.

- **Integration Testing:** After unit testing, we do the integration testing. Unit testing uses modules for testing purposes, and these modules are combined and tested in integration testing. The Software is developed with several software modules that are coded by different coders or programmers. The goal of integration testing is to check the correctness of communication among all the modules. We used Bottom-Up technique in our software.

Purpose: The purpose of this integration testing plan is to verify that the different components of the lawyer hiring website are integrated properly and that they work together as expected.

Scope: The scope of this integration testing plan includes the following features:
- User account creation
- User login and signup
- Search lawyers by type
- See lawyer status/profile.
- See availability of lawyers
- Take an appointment through calls.
- Attach documents or photos to help the consultation.
- Appointment reminder
- Appointment canceling
- Lawyer updates his valid profile.
- Lawyer rejects an appointment with valid reason.
- Lawyer set their own appointment fees.
- Lawyer set their payment method.
- Lawyer checks their earnings reports.
- Payment withdrawals for lawyers
- User payment

Test Cases: The following are the test cases that will be performed during the integration testing phase:

- TC-1: Verify that users can create an account with a valid email address and password.
- TC-2: Verify that users cannot create an account with an invalid email address or password.
- TC-3: Verify that users cannot create more than one account with the same email address.
- TC-4: Verify that users can login with their email address and password.
- TC-5: Verify that users cannot login with an invalid email address or password.
- TC-6: Verify that users can sign up with a valid email address and password.
- TC-7: Verify that users can search for lawyers by type.

- TC-8: Verify that users can see a list of lawyers that match their search criteria.
- TC-9: Verify that users can see the lawyers' profiles, including their experience, education, and availability.
- TC-10: Verify that users can see the lawyer's status, such as whether they are available or not.
- TC-11: Verify that users can see the lawyer's profile, including their experience, education, and availability.
- TC-12: Verify that users can see if the lawyers are available for an appointment at a specific time.
- TC-13: Verify that users can call the lawyers to book an appointment.
- TC-14: Verify that the lawyers receive the calls and can book appointments with the users.
- TC-15: Verify that users can attach documents or photos to their appointment requests.
- TC-16: Verify that the lawyers can view the documents or photos and use them to help with the consultation.
- TC-17: Verify that users receive reminders for their appointments.
- TC-18: Verify that the reminders include the time, date, and location of the appointment.
- TC-19: Verify that users can cancel their appointments.
- TC-20: Verify that the lawyers are notified when appointments are canceled.

Entry criteria:

- All unit testing has been completed and all defects have been fixed.
- The system architecture has been finalized and all dependencies have been identified.
- The integration test plan has been developed and approved.
- The test environment has been set up and is ready for testing.
- The data for testing has been created.

Exit criteria:

- All integration tests have been executed and passed.
- All defects found during integration testing have been fixed.
- The system is ready for system testing.

Expected Results: The expected results for each test case will be same as requirement.

- **System Testing**: After completing integration testing, we proceed with system testing, where we thoroughly tested the fully integrated system to ensure it meets all the specified requirements. This testing has been done using the "Black Box Testing" technique, as it focuses on the system's overall functionality without examining the internal code or structure. Our goal is to verify that the system functions as a complete, integrated unit and meets all the requirements.

User Acceptance Testing (UAT) Plan

Purpose: The purpose of this user acceptance testing (UAT) plan is to verify that the lawyer hiring system meets the requirements of the users and that it is ready for deployment.

Scope: The scope of this UAT plan includes the following features:
- User account creation
- User login and signup
- Search lawyers by type
- See lawyer status/profile.
- See availability of lawyers
- Take an appointment through calls.
- Attach documents or photos to help the consultation.
- Appointment reminder
- Appointment canceling
- Lawyer updates his valid profile.
- Lawyer rejects an appointment with valid reason.
- Lawyer set their own appointment fees.
- Lawyer set their payment method.
- Lawyer checks their earnings reports.
- Payment withdrawals for lawyers
- User payment

Testers: The testers for this UAT plan will be a group of users who have been selected to represent the different types of users who will be using the system.

Test Data: The test data for this UAT plan will be provided by the project team.

Procedures: The following procedures will be followed during the UAT phase:
- The testers will be given a training session on how to use the system.
- The testers will then test the system using the test cases that have been developed.
- The testers will report any defects that they find to the project team.
- The project team will fix the defects and then the testers will retest the system.
- This process will continue until all the defects have been fixed and the testers are satisfied with the system.

Acceptance Criteria: The system will be considered to have passed the UAT phase if it meets the following criteria:

- o The system must meet the requirements of the users.
- o The system must be free of defects.
- o The system must be easy to use and navigate.
- o The system must be reliable and available 24/7.

Entry criteria:

- All integration testing has been completed and all defects have been fixed.
- The system is ready for use by users.
- The system documentation is complete and up to date.
- The test environment is ready for testing.
- The data for testing has been created.

Exit criteria:

- All system tests have been executed and passed.
- All defects found during system testing have been fixed.
- The system is ready for user acceptance testing.

o **Acceptance Testing:** Then we did Acceptance testing which is a testing technique performed to determine whether the software system has met the requirement specifications. The main purpose of this test is to evaluate the system's compliance with the business requirements and verify if it has met the required criteria for delivery to end users. Acceptance testing (UAT) is often overlooked because it is seen as a formality, rushed, not well-defined, and not user centric. Despite these challenges, UAT is an important part of the software development process and should be done thoroughly to ensure that the product meets the requirements of the users and is ready to be released.

To make UAT effective, it should start early in the development process, involve the users, use a variety of testing methods, document the results, and follow up on defects.

6.2 Test Tools

The only test tools to be used are the standard AS/400 provided utilities and commands.

o **UML:** UML helps software engineers, businesspeople and system architects with modelling, design, and analysis. The Object Management Group (OMG) adopted Unified Modelling Language as a standard in 1997. OMG has managed it ever since. International Organization for

Standardization (ISO) published UML as an approved standard in 2005. UML has been revised over the years and is reviewed periodically.

- o **Selenium Web driver:** Selenium Web driver is an open-source collection of APIs which is used for testing web applications. The Selenium Web driver tool is used for automating web application testing to verify that it works as expected or not. It mainly supports browsers like Firefox, Chrome, Safari, and Internet Explorer. It also permits you to execute cross-browser testing.

- o **Excel:** Excel is a great tool for creating timeline charts.

6.3 Meetings

The testing team will hold a weekly meeting to assess the status of the project, pinpoint emerging issues, and detect potential problems at an early stage. They will also hold a biweekly meeting with the development team and project manager to discuss the overall progress of the project and to ensure that the testing team and development team are working together effectively. In urgent cases, extra meetings may be arranged.

7. TEST CASES/TEST ITEMS

Test case for Login:

Project Name: Legal Search			Test Designed by: MD Salman Hossain	
Test Case ID: U_k1			Test Designed date: 12/08/2023	
Test Priority (Low, Medium, High): High			Test Executed by: MD Salman Hossain	
Module Name: Login Session			Test Execution date: 12/08/2023	
Test Title: verify login with valid username and password				
Description: Test website login page				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Enter username. 3. Enter password. 4. Click submit	Username: Salman123 Password: 123	User should login into the application	As expected,	Pass
Post Condition: User is validated with database and successfully login to account. The account session details are logged in the database.				

Test Case for Registration:

Project Name: Legal Search			Test Designed by: MD Salman Hossain	
Test Case ID: U_k2			Test Designed date: 13/08/2023	
Test Priority (Low, Medium, High): Medium			Test Executed by: MD Salman Hossain	
Module Name: Registration Session			Test Execution date: 13/08/2023	
Test Title: Register with valid username and password and all other criteria.				
Description: Test website registration page				
Precondition (If any): None				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Click Register button. 3. Enter name. 4. Enter email. 5. Enter date of birth 6. Enter gender. 7. Enter password. 8. Repeat password. 9. Click submit	Name: MD Salman Hossain Email: Dob: 03-03-2000 Gender: Male Password: salman12 Repeat password: salman12	User should register himself/herself into the application.	As expected,	Pass
Post Condition: User is validated with database and successfully registered an account. The account session details are stored in the database.				

Test case for create post:

Project Name: Legal Search	Test Designed by: : MD Salman Hossain
Test Case ID: U_k3	Test Designed date: 12/08/2023
Test Priority (Low, Medium, High): Medium	Test Executed by: Nouroj Amin
Module Name: Create Feed Post Session	Test Execution date: 15/08/2023
Test Title: Create post with title and details	
Description: Test website create post page	
Precondition (If any): User must have valid username and password	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Click Create Post. 3. Enter Title. 4. Enter Details. 5. Click submit	Title: What is Football? Details: Football is the most popular game in the world.	User should create a post into the application	As expected,	Pass

Post Condition: User is validated with database and successfully create a post.

Test case for update profile:

Project Name: Legal Search		Test Designed by: MD Salman Hossain
Test Case ID: U_k4		Test Designed date: 12/08/2023
Test Priority (Low, Medium, High): Medium		Test Executed by: MD Salman Hossain
Module Name: Profile Update Session		Test Execution date: 14/08/2023
Test Title: Update user profile with valid username, email, date of birth, and gender.		
Description: Test website Profile Update page		
Precondition (If any): User must have valid username and password		

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Click Update button. 3. Enter name. 4. Enter email. 5. Enter date of birth 6. Enter gender. 7. Click submit	Name: Salman1001 Email: salman00hossain@gmail.com Dob: 01-02-2003 Gender: Male	User should update his/her profile of the application	As expected,	Pass

Post Condition: User is validated with database and successfully update its profile.

Project Name: Legal Search	Test Designed by: : MD Salman Hossain
Test Case ID: U_k5	Test Designed date: 12/08/2028
Test Priority (Low, Medium, High): Medium	Test Executed by: Nouroj Amin
Module Name: Update Feed Post Session	Test Execution date: 15/08/2023
Test Title: Update post with title and details	
Description: Test website update post page	

Precondition (If any): User must have valid username and password

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Click Update Post. 3. Enter updated Title. 4. Enter updated Details. 5. Click submit	Title: What is Ja? Details: Java is a programming language.	User should update a post into the application	As expected,	Pass

Post Condition: User is validated with database and successfully update a post.

Test case for update post:

Project Name: Legal Search	Test Designed by: Md Salman
Test Case ID: U_k6	Test Designed date: 12.08.23
Test Priority (Low, Medium, High): High	Test Executed by: MD Salman Hossain
Module Name: Search button	Test Execution date: 13.08.23
Test Title: verify that the search button is working or not	
Description: Test search button	
Precondition (If any): Null				

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Click search button. 3. Enter search queries. 4. Click submit.	Username: Salman123 Password: 123	User should be able to search their desired queries.	As expected,	Pass

Post Condition: User can search their desired queries.

Project Name: Legal Search				Test Designed by: Md Salman
Test Case ID: U_k7				Test Designed date: 12.08.23
Test Priority (Low, Medium, High): Low				Test Executed by: Salman Hossain
Module Name: Subscription button				Test Execution date: 13.08.23
Test Title: Press and show subscription information				
Description: Testing subscription button				
Precondition (If any): Null				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Press subscription button	Username: Salman123 Password: 123	User should see the page of subscription	Not as expected,	Fail
Post Condition: User cannot see the desired subscription page.				

Project Name: Legal Search	Test Designed by: Md Salman
Test Case ID: U_k8	Test Designed date: 12.08.23
Test Priority (Low, Medium, High): Medium	Test Executed by: MD Salman Hossain
Module Name: Find Lawyer button	Test Execution date: 12.08.23

Test Title: Press and show find lawyer page

Description: Testing find lawyer button

Precondition (If any): Null

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Press find-lawyer button.	Username: Salman123 Password: 123	User should see the page of find lawyer	Not as expected,	Fail

Post Condition: User cannot see the desired find-lawyer page.

Project Name: Legal Search		Test Designed by: Nouroj Amin
Test Case ID: U_k9		Test Designed date: 12.08.23
Test Priority (Low, Medium, High): Low		Test Executed by: Md Salman
Module Name: More button		Test Execution date: 14.08.23

Test Title: Press and show more page

Description: Testing more button

Precondition (If any): Null

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Press more button	Username: Nouroj123 Password: @34sa123	User should see the page of more	As expected,	Pass

Post Condition: User can see the desired more page.

Project Name: Legal Search	Test Designed by: Md Salman
Test Case ID: U_k10	Test Designed date: 12.08.23
Test Priority (Low, Medium, High): Low	Test Executed by: MD Salman Hossain
Module Name: Family law specialist button	Test Execution date: 14.08.23
Test Title: Press and show family law specialist page	
Description: Testing family law specialist button	
Precondition (If any): Null	

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Press family law specialist button	Username: Nouroj123 Password: @34sa123	User should see the page of family law specialist	As expected,	Pass

Post Condition: User can see the desired family law specialist page.

Project Name: Legal Search			Test Designed by: Md Salman		
Test Case ID: U_k11			Test Designed date: 12.08.23		
Test Priority (Low, Medium, High): Low			Test Executed by: Nouroj Amin		
Module Name: Tax law specialist button			Test Execution date: 13.08.23		
Test Title: Press and show tax law specialist page					
Description: Testing tax law specialist button					
Precondition (If any): Null					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Go to the website 2. Press tax law specialist button	Username: Nouroj123 Password: @34sa123	User should see the page of tax law specialist	Not as expected,	Fail	
Post Condition: User cannot see the desired tax law specialist page.					

Project Name: Legal Search			Test Designed by: Md Salman		
Test Case ID: U_k12			Test Designed date: 12.08.23		
Test Priority (Low, Medium, High): Low			Test Executed by: Salman Hossain		
Module Name: Criminal law specialist button			Test Execution date: 13.08.23		
Test Title: Press and show criminal law specialist page					
Description: Testing criminal law specialist button					
Precondition (If any): Null					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Go to the website 2. Press criminal law specialist button	Username: Nouroj123 Password: @34sa123	User should see the page of criminal law specialist	As expected,	Pass	
Post Condition: User can see the desired criminal law specialist page.					

Project Name: Legal Search			Test Designed by: Md Salman	
Test Case ID: U_k11			Test Designed date: 12.08.23	
Test Priority (Low, Medium, High): High			Test Executed by: Nouroj Amin	
Module Name: Consult Session			Test Execution date: 14.08.23	
Test Title: press and confirm a time slot for consultation				
Description: Test consult button				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website 2. Search for desired lawyer 3. Click profile 4. Click consult button	Username: Nouroj123 Password: @34sa123	User should able to book a time slot for consultation.	As expected,	Pass
Post Condition: User is validated with database and successfully booked a time for consultation. This information is saved into the database.				

Project Name: Legal Search	Test Designed by: Nouroj Amin
Test Case ID: U_k12	Test Designed date: 12.08.23
Test Priority (Low, Medium, High): High	Test Executed by: Nouroj Amin
Module Name: Payment Session	Test Execution date: 14.08.23

Test Title: now press pay button and confirm a payment

Description: now Test pay button

Precondition (If any): User must have valid username and password

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Search for desired lawyer 3. Click profile 4. Click consult button. 5. Click pay now button	Username: Nouroj123 Password: @34sa123	User should able to pay the required fee.	As expected,	Pass

Post Condition: User is validated with database and successfully paid the fee for consultation. This information is saved into the database.

Project Name: Legal Search			Test Designed by: Md Salman	
Test Case ID: U_k13			Test Designed date: 12.08.23	
Test Priority (Low, Medium, High): High			Test Executed by: Md Salman	
Module Name: Lawyer registration Session			Test Execution date: 15.08.23	
Test Title: register with email and password				
Description: Test lawyer register button				
Precondition (If any): User must have valid username and password				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Click register button! 3. Click lawyer register button. 4. Enter username. 5. Enter password. 6. Enter NID 7. Click submit	Username: Nouroj123 Password: @34sa123	User should sign up as a lawyer	As expected,	Pass
Post Condition: User is validated with database and successfully sign up as a lawyer. This information is saved into the database.				

Project Name: Legal Search			Test Designed by: Mst Munjuma Akter		
Test Case ID: U_k14			Test Designed date: 12.08.23		
Test Priority (Low, Medium, High): Low			Test Executed by: Mst Munjuma Akter		
Mst Munjuma Akter Module Name: Feature button			Test Execution date: 14.08.23		
Test Title: Press and show feature page					
Description: Testing feature button					
Precondition (If any): Null					
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)	
1. Go to the website. 2. Press feature button	Username: Nouroj123 Password: @34sa123	User should see the page of feature	Not as expected,	Fail	
Post Condition: User cannot see the desired feature page.					

Project Name: Legal Search	Test Designed by: Mst Munjuma Akter
Test Case ID: U_k15	Test Designed date: 12.08.23
Test Priority (Low, Medium, High): Low	Test Executed by: Mst Munjuma Akter
Module Name: Contact us button	Test Execution date: 12.08.23

Test Title: Press and show contact us page

Description: Testing contact us button

Precondition (If any): Null

Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Press contact-us button	Username: Nouroj123 Password: @34sa123	User should see the page of contact us.	As expected,	Pass

Post Condition: User can see the desired contact-us page.

Project Name: Legal Search			Test Designed by: Mst Munjuma Akter	
Test Case ID: U_k16			Test Designed date: 12.08.23	
Test Priority (Low, Medium, High): Medium			Test Executed by: Mst Munjuma Akter	
Module Name: Privacy policy button			Test Execution date: 12.08.23	
Test Title: Press and show privacy policy page				
Description: Testing privacy policy button				
Precondition (If any): Null				
Test Steps	Test Data	Expected Results	Actual Results	Status (Pass/Fail)
1. Go to the website. 2. Press privacy policy button	Username: Nouroj123 Password: @34sa123	User should see the page of privacy policy.	As expected,	Pass
Post Condition: User can see the desired privacy policy page.				

7.1 ITEM PASS/FAIL CRITERIA

If a software module is designed to perform a particular function, the item pass/fail criteria will be based on whether the module performs that function as specified in the requirements. If the module meets the specified requirements, it will pass the test, but if it fails to meet the requirements, it will fail the test.

We executed six test cases and found that approximately 93% of them passed successfully. However, 7% of the test cases failed due to some database related issue. After resolving these issues, we re-executed the failed test cases and all of them passed successfully.

8. TEST DELIVERABLES

- o Test plan: A document that outlines the testing approach, test cases, and schedules for testing.
- o Test cases: Documents that describe individual test scenarios and the expected results. Such as unit testing. Integration testing, system testing, acceptance testing.
- o Test scripts: Automated scripts that execute test cases.
- o Test results: Reports that show the results of individual tests and overall testing progress.
- o Defect reports: Documents that report defects or issues discovered during testing.
- o Test summary reports: A document that summarizes the testing process and results, including pass/fail rates, defect counts, and testing metrics.
- o Test environment setup documentation: A document that describes the configuration of the testing environment, including hardware, software, and network configurations.
- o Test completion report: A document that describes the overall results of testing and provides a summary of the testing process, including any issues encountered and recommendations for future testing.
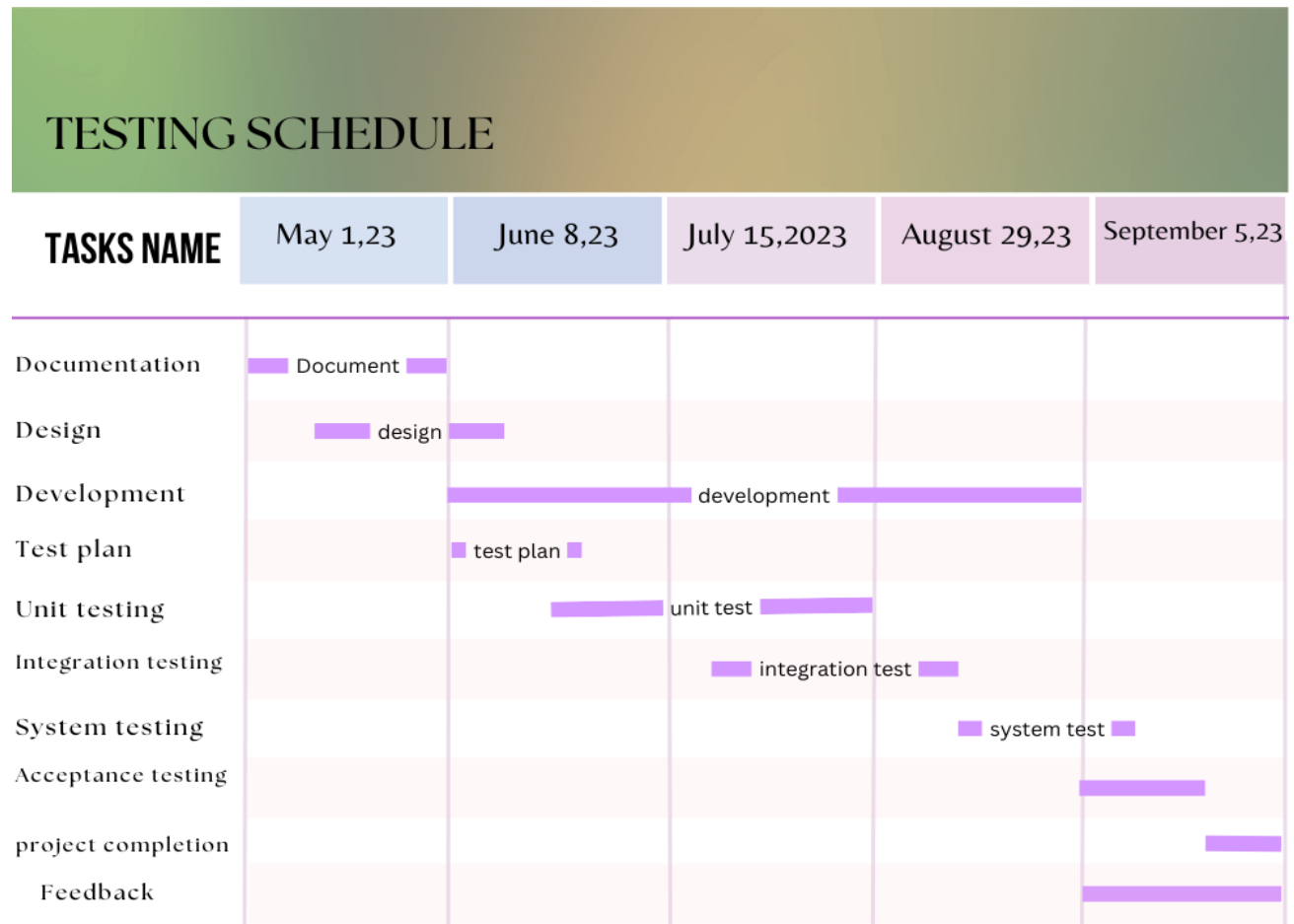
9. STAFFING AND TRAINING NEEDS

- o Hiring additional staff: If the current team is not able to keep up with the testing workload, hiring additional staff may be necessary.
- o Training existing staff: Providing training to existing staff can help improve their skills and efficiency in testing.
- o Cross-training: Cross-training staff in different areas of testing can help ensure that there are no gaps in testing coverage and that testing can continue even if some team members are unavailable.
- o Training on new technologies or tools: If new technologies or tools are being used in testing, staff may need training to learn how to use them effectively.

10. RESPONSIBILITIES

RESPONSIBILITIES

	Team Manager	Product manager	Dev Team	Test Team	Client
User Interface Design	✓	✓			✓
Unit Test Documentation and execution	✓		✓	✓	
System/integration test Documentation & Exec.	✓	✓	✓	✓	✓
System Design Reviews	✓	✓	✓	✓	✓
Detail Design Reviews	✓	✓	✓	✓	✓
Test procedures and rules	✓	✓	✓	✓	
Screen & Report reviews	✓	✓	✓	✓	✓
Acceptance testing	✓	✓		✓	✓

11. TESTING SCHEDULE

TESTING SCHEDULE

TASKS NAME	May 1,23	June 8,23	July 15,2023	August 29,23	September 5,23
Documentation	Document				
Design		design			
Development		development			
Test plan		test plan			
Unit testing		unit test			
Integration testing			integration test		
System testing				system test	
Acceptance testing					
project completion					
Feedback					

12. PLANNING RISKS AND CONTINGENCIES

o Resource constraints: There may be a shortage of testing resources such as testing tools, infrastructure, or personnel. To mitigate this risk, the testing team can develop a contingency plan to prioritize testing activities, implement automation, or seek additional resources.

o Electricity issue: Because of load shedding our testing process may get delayed. We fully depend on electricity in our work. To mitigate the risk, we may need to use alternative electricity resources.

- Technical issues: Technical issues such as software compatibility, network failures, or system crashes can impact the testing process. To mitigate this risk, the testing team can develop a backup plan to recover data, establish redundant systems, or perform routine system backups.
- Changes in requirements: Changes in requirements can lead to a delay in the testing process or an impact on the quality of the testing. To mitigate this risk, the testing team can implement a change management process to ensure that all stakeholders are informed of changes and adjust the testing approach accordingly.
- Communication breakdowns: Communication breakdowns between project stakeholders can lead to misunderstandings, delays, or errors in testing. To mitigate this risk, the testing team can establish regular communication channels, set clear expectations, and develop a contingency plan for addressing communication issues.

13. APROVALS

Project Sponsor –	American International University-Bangladesh
Development Manager -	MD Salman Hossain
Project Manager -	MST. MUNJUMA AKTER
Test Manager -	NOUROJ AMIN
Development Team Manager -	MD Salman Hossain
Reassigned Sales –	NOUROJ AMIN
Order Entry EDI Team Manager –	MST. MUNJUMA AKTER