Daffodil International University

Department of Computer Science and Engineering

SRS REPORT

Assignment No.: 02

Assignment on: Software Requirements Specification (SRS)

Submitted By :

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Section:61-U

CSE236 | SOFTWARE PROJECT - 2

Submitted to: Md. Golam Rabbany

Dept. of CSE, Daffodil International University

Ashif Hasan

Manager

Airline Flight Booking System

Dhaka 1204

Subject: Application for agreement of Airline Flight Booking System Project.

Dear Mr sarker

I hope you are well. I am writing to propose the development of a comprehensive Airline Flight Booking System that I believe will significantly enhance the efficiency and quality of our airline flight service.

I am the member of creative IT company. I have identified the hole system of your airlines company and decided to create a unique Airline Flight Booking System. Thank you for considering this proposal. I am excited about the potential this project holds for our organization and look forward to the opportunity to discuss it in more details.

Sincerely

Rabbi Hassan

Head

Application development Brach

SoftTech

Table of Contents

1. Introduction

This Software Requirements Specification (SRS) document outlines the functional and non-functional requirements for an Airline Flight Booking System. The system aims to provide a user-friendly platform for passengers to search, book, and manage their airline flight reservations.

2. Overall Description

The Airline Flight Booking System is a web-based application that enables passengers to easily search for and book flights, manage their reservations, and view their travel history. The system provides a comprehensive suite of features to cater to the needs of both regular and occasional travelers.

3. Functional Requirements

3.1 Search and Booking

- Users can search for flights by specifying their desired origin, destination, and travel dates.
- The system displays a list of available flights, including departure and arrival times, airlines, and fares.
- Users can select the desired flight and provide passenger information, including names, contact details, and passport numbers.
- The system validates passenger information and displays the total fare, including taxes and fees.
- Users can proceed to the payment gateway to complete the booking process.

3.2 Payment Processing

- The system integrates with a secure payment gateway to process credit card transactions.
- Users enter their credit card information and confirm the payment.
- Upon successful payment, the system generates and sends an electronic ticket (e-ticket) to the user's email address.

3.3 Reservation Management

- Users can view their upcoming and past reservations.
- Users can cancel or modify their reservations, subject to airline policies and fees.

- The system sends email notifications for booking confirmations, cancellations, and modifications.

3.4 User Management

- Users can create an account to store their personal information and preferences.
- Users can manage their profile information, including contact details and passport details.
- Users can reset their passwords if they forget them.

4. Non-Functional Requirements

4.1 Performance

- The system should respond to user requests promptly and efficiently.
- The system should handle multiple concurrent users without performance degradation.
- The system should be able to process large volumes of data seamlessly.

4.2 Security

- The system should implement robust security measures to protect user data.
- All data transmissions should be encrypted using secure protocols.
- The system should adhere to industry-standard security practices and regularly undergo security audits.

4.3 Usability

- The system should have a user-friendly interface that is easy to navigate and understand.
- The system should provide clear instructions and guidance throughout the booking process.
- The system should be accessible to users with disabilities.

4.4 Reliability

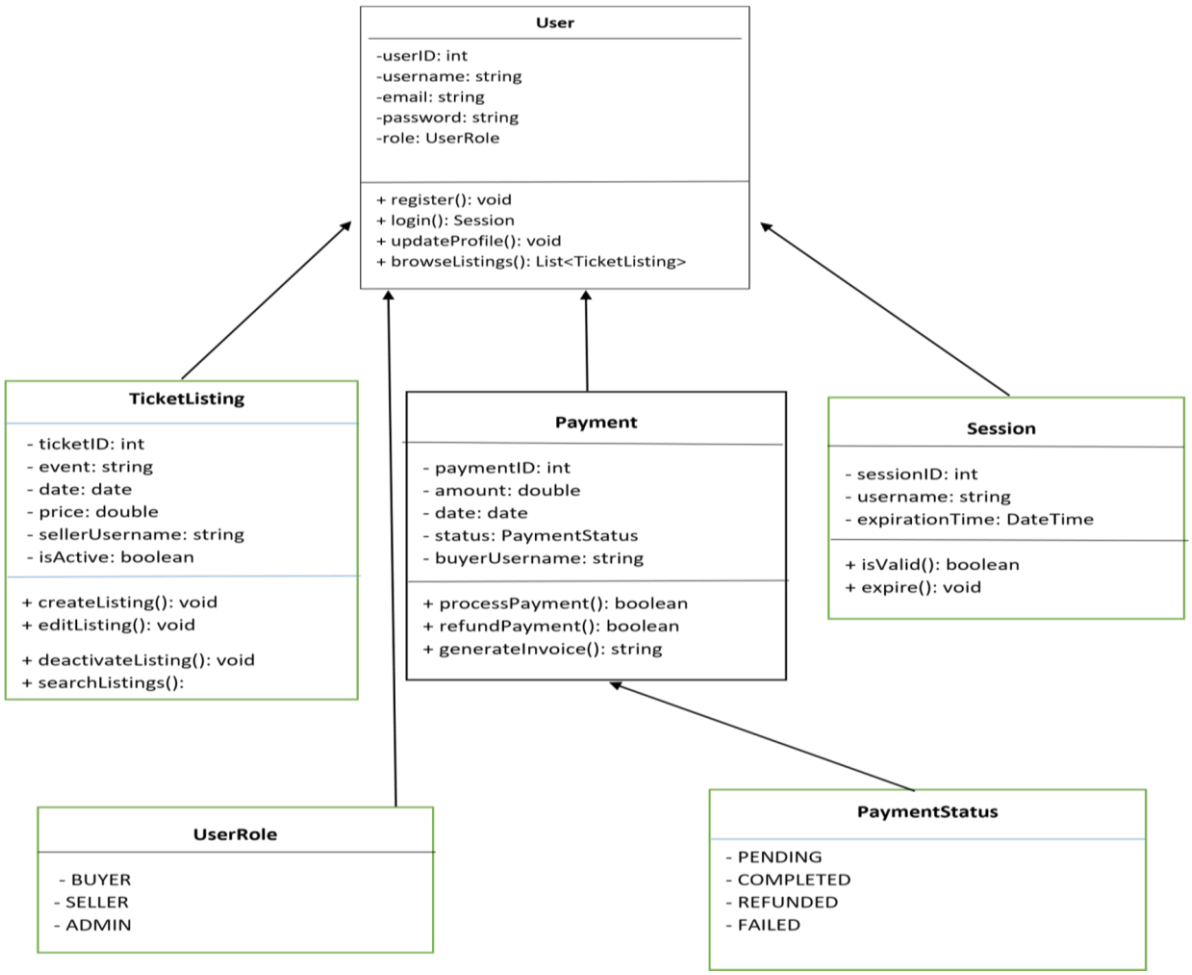
- The system should be highly reliable and available to users 24/7.
- The system should have a robust disaster recovery plan in place.
- The system should undergo regular maintenance and updates to ensure its stability and performance.

5. Milestone & Reporting

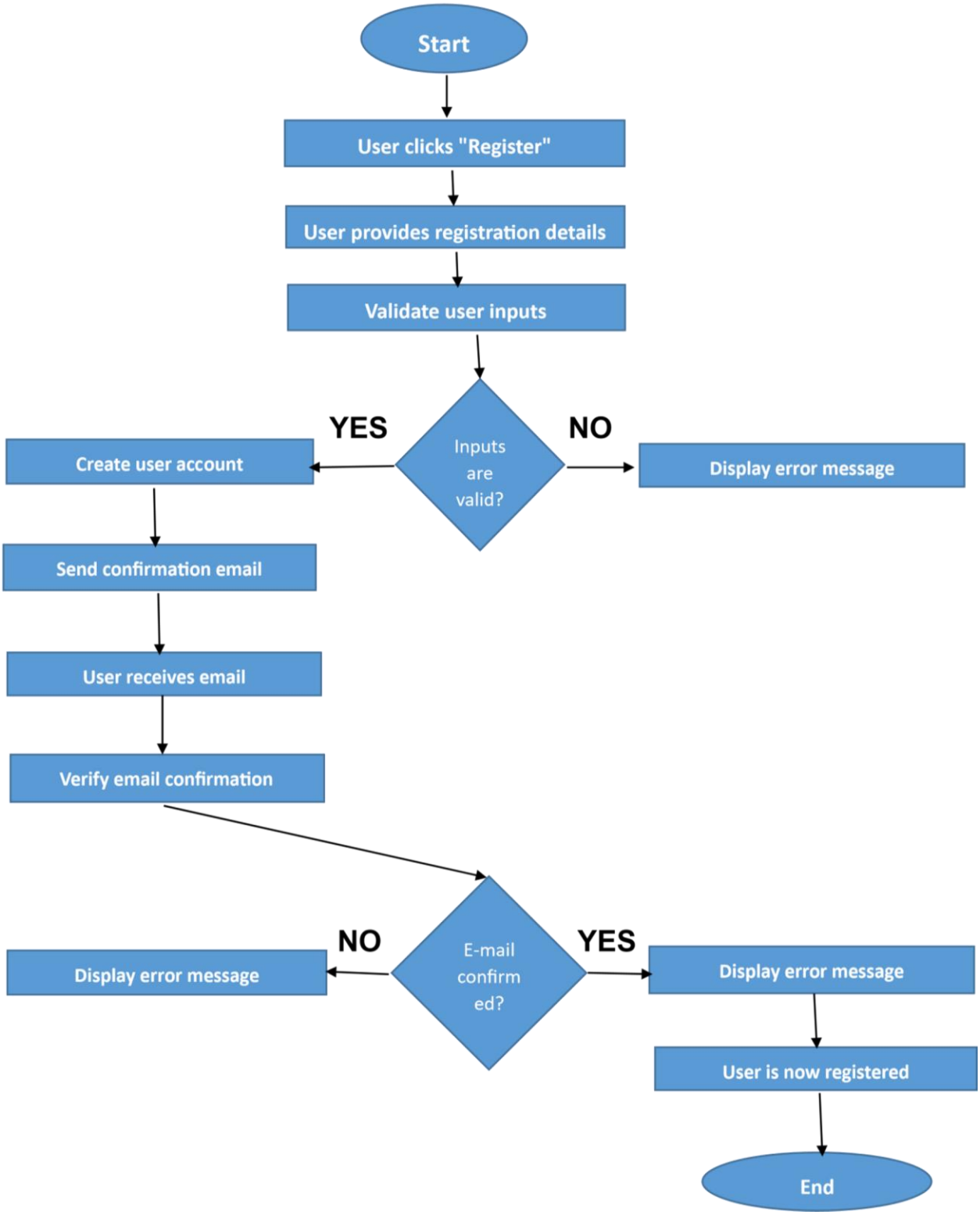
Milestone	Task	Reporting	Required Time
Analyzing Project	Submit Idea & Design	Submit The Design	5 Days
Requirements Collection	Gathering Data & submit		7 Days
Development	Work with the project from the root	Review The Work	25 Days
Testing	Testing the entire application system		10 Days
Deployment	Fining and Review Final project	Review Final Work	7 Days
Delivery Project	Available to Online platform	Live On Server	5 Days

5 UML:

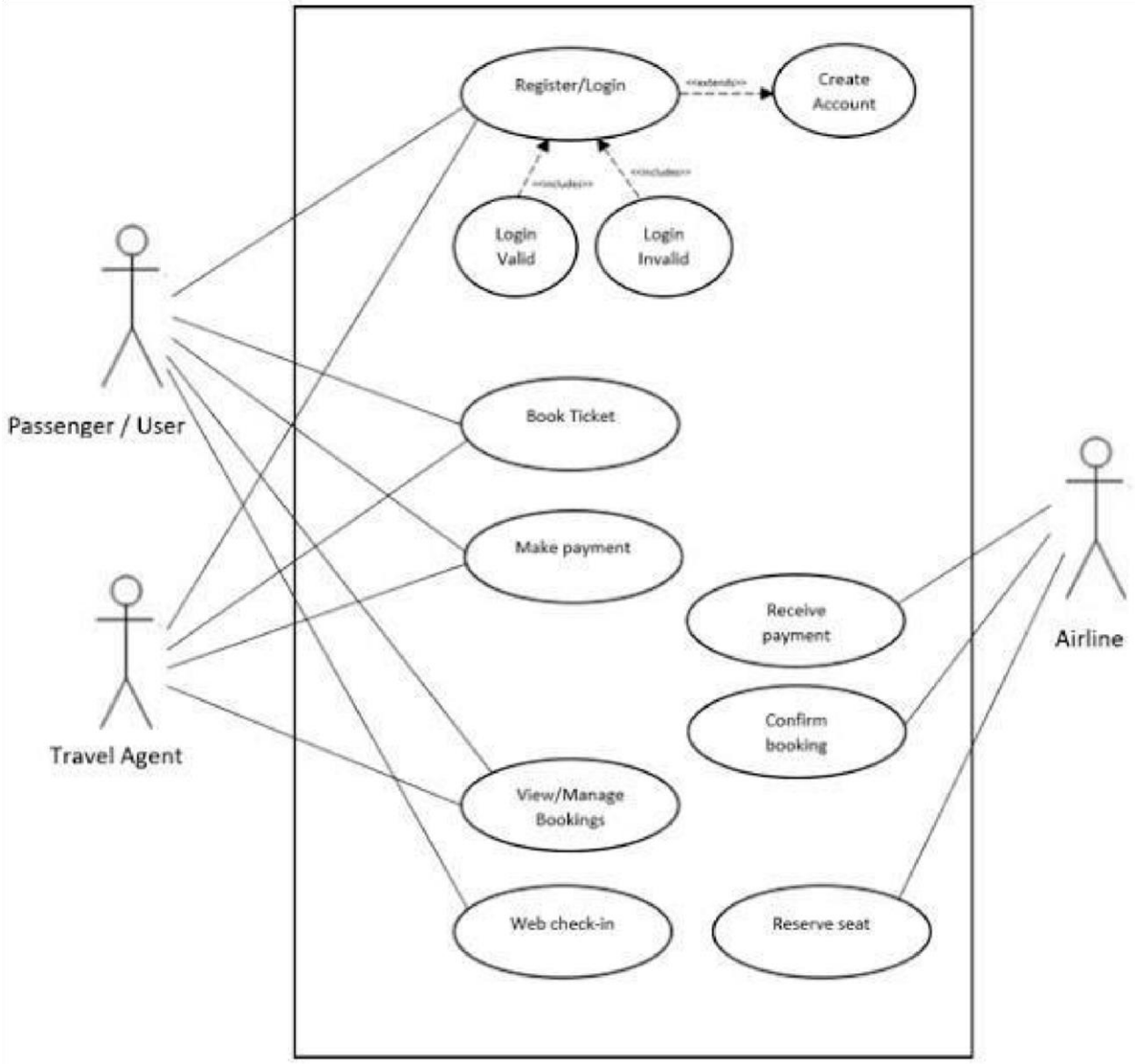
Creating a larger UML diagram can make it more readable and detailed. Here's a larger class diagram for a ticket exchange website with expanded elements:


User
-userID: int
-username: string
-email: string
-password: string
-role: UserRole
+ register(): void
+ login(): Session
+ updateProfile(): void
+ browseListings(): List<TicketListing>
TicketListing
- ticketID: int
- event: string
- date: date
- price: double
- sellerUsername: string
- isActive: boolean
+ createListing(): void
+ editListing(): void
+ deactivateListing(): void
+ searchListings():
Payment
- paymentID: int
- amount: double
- date: date
- status: PaymentStatus
- buyerUsername: string
+ processPayment(): boolean
+ refundPayment(): boolean
+ generateInvoice(): string
Session
- sessionID: int
- username: string
- expirationTime: DateTime
+ isValid(): boolean
+ expire(): void
UserRole
- BUYER
- SELLER
- ADMIN
PaymentStatus
- PENDING
- COMPLETED
- REFUNDED
- FAILED

6.Flowchart


Start
User clicks "Register"
User provides registration details
Validate user inputs
Inputs are valid?
YES
NO
Create user account
Display error message
Send confirmation email
User receives email
Verify email confirmation
E-mail confirmed?
NO
YES
Display error message
Display error message
User is now registered
End

7.Use Case Diagram:



8.Additional Considerations

- The system shall be able to integrate with third-party systems, such as customer relationship management (CRM) and travel agency systems.
- The system shall be scalable to accommodate future growth.

- The system shall be designed to be maintainable and extensible.

9.Conclusion:

The Airline Flight Booking System aims to provide a comprehensive and user-friendly platform for passengers to manage their flight reservations. The system adheres to strict security and performance standards, ensuring a reliable and convenient experience for its users.

10. Software Development Methodologies

Ticket exchange platform software methodology is the approach taken to develop and maintain a software platform that allows users to buy and sell tickets to events. This methodology should include considerations for the following:

- **Security:** The platform must be secure to protect users' personal and financial information. This includes implementing measures to prevent fraud and unauthorized access to accounts.
- **Scalability:** The platform must be able to handle a large volume of traffic and transactions. This is especially important for popular events where tickets sell out quickly.
- **User experience**: The platform should be easy to use for both buyers and sellers. This includes having a clear and concise interface, as well as robust search and filtering capabilities.
- **Compliance:** The platform must comply with all applicable laws and regulations. This includes things like data protection and consumer protection laws.

Here is a more detailed overview of the key steps involved in developing a ticket exchange platform:

1. **Requirements gathering**: The first step is to gather requirements from the users of the platform. This includes understanding what features they need and how they want the platform to work.

2. **System design:** Once the requirements have been gathered, the system can be designed. This includes defining the architecture of the platform, as well as the features and functionality that will be implemented.
3. **Development:** The next step is to develop the platform. This includes writing the code, testing the platform, and fixing any bugs.
4. **Deployment:** Once the platform is developed, it can be deployed to production. This includes making it available to users and configuring it to work with the existing infrastructure.
5. **Maintenance and support:** Once the platform is deployed, it needs to be maintained and supported. This includes fixing any bugs that are discovered, as well as adding new features and functionality as needed.

Here are some additional considerations for ticket exchange platform software methodology:

- **Fraud prevention**: Ticket exchange platforms are a prime target for fraudsters. It is important to implement measures to prevent fraud, such as verifying the identity of users and detecting counterfeit tickets.
- **Dispute resolution**: Ticket exchange platforms often have to deal with disputes between buyers and sellers. It is important to have a fair and efficient dispute resolution process in place.
- **Customer support**: Ticket exchange platforms should provide excellent customer support to their users. This includes being responsive to inquiries and resolving issues quickly and efficiently.

11. Testing

Following features will be used for testing

- This Application will be tested with Agile model
- Application will be tested by PHPUnit.
- Application also tested By Codeception.

12. Payment Terms & condition

15% payment will be accepted for the Project proposal and design Submission.

45% payment will be accepted for the Application Development

70% payment will be accepted after application review and Testing

100% payment will be accepted after handover the fully completed Application

13. Responsibility

The entire Application has been done by MMK Mahin and all the responsibility including terms and condition will goes to him.

14. Contact Us

You can get in touch with us in any of the below ways:

Golam Rabbany
By Phone: +8801787774996

By Email
grabbany1234@gmail.com

15. Agreement Signed By:

……	……..	……
Client Signature Ashif Hasan Managing Director	Order Provider Signature Rabbi hassan Officer SoftTech	Authority Signature Golam Rabbany Managing Director (MD) SoftTech