

**Assignment 1: SDLC Overview - Create a one-page infographic that outlines the SDLC phases (Requirements, Design, Implementation, Testing, Deployment), highlighting the importance of each phase and how they interconnect.**

## SDLC Explanation



## User Story: Login Functionality

**Title:** User Login

**As a:** Registered user

**I want to:** Log into the system

**So that I can:** Access my personal dashboard and use the platform's features

**Acceptance Criteria:**

1. **Scenario 1:** Successful Login

- **Given:** A registered user with valid credentials
  - **When:** The user enters their correct username and password
  - **Then:** They should be redirected to their personal dashboard
2. **Scenario 2:** Unsuccessful Login (Incorrect Password)
- **Given:** A registered user with an incorrect password
  - **When:** The user enters their username and incorrect password
  - **Then:** They should see an error message indicating incorrect credentials
3. **Scenario 3:** Unsuccessful Login (Unregistered User)
- **Given:** An unregistered user
  - **When:** The user tries to log in with a non-existent username
  - **Then:** They should see an error message indicating the username does not exist
4. **Scenario 4:** Password Recovery
- **Given:** A registered user who has forgotten their password
  - **When:** The user clicks on "Forgot Password"
  - **Then:** They should be prompted to enter their email address to receive password recovery instructions
5. **Scenario 5:** Session Management
- **Given:** A logged-in user
  - **When:** The user is inactive for a specific period
  - **Then:** They should be automatically logged out and redirected to the login page

### **User Story: Booking Functionality**

**Title:** Booking a Service

**As a:** Logged-in user

**I want to:** Book a service or appointment

**So that I can:** Schedule and confirm my desired service or appointment

**Acceptance Criteria:**

1. **Scenario 1:** Viewing Available Services

- **Given:** A logged-in user
- **When:** The user navigates to the booking section
- **Then:** They should see a list of available services with details like date, time, and price

2. **Scenario 2:** Selecting a Service

- **Given:** A logged-in user viewing the list of services
- **When:** The user selects a service
- **Then:** They should be directed to a page where they can choose a specific date and time for the service

3. **Scenario 3:** Confirming a Booking

- **Given:** A logged-in user who has selected a service, date, and time
- **When:** The user clicks on the "Book Now" button
- **Then:** They should see a confirmation page with the booking details and receive a confirmation email

4. **Scenario 4:** Viewing Booking History

- **Given:** A logged-in user
- **When:** The user navigates to their booking history
- **Then:** They should see a list of their past and upcoming bookings with details

5. **Scenario 5:** Cancelling a Booking

- **Given:** A logged-in user with an upcoming booking
- **When:** The user chooses to cancel the booking
- **Then:** They should receive a confirmation of cancellation and the booking should be removed from their upcoming bookings list

## 6. **Scenario 6:** Booking Notifications

- **Given:** A logged-in user with a confirmed booking
- **When:** The booking date approaches
- **Then:** They should receive reminders via email or SMS about their upcoming booking

These user stories ensure that the login and booking functionalities cater to the needs of the users, providing them with a seamless and efficient experience on the platform.

sdhc documentation

ChatGPT

Sure, here's a detailed Software Development Life Cycle (SDLC) documentation for a project involving login and booking functionalities. This document outlines the various phases of the SDLC, detailing the activities, deliverables, and responsible parties at each stage.

### 1. **Planning Phase**

**Objective:** Define the project scope, objectives, and feasibility. Identify resources, timelines, and budget.

#### **Activities:**

- Conduct feasibility study.
- Define project scope and objectives.
- Identify stakeholders.
- Develop project plan and schedule.
- Determine resource requirements and budget.
- Risk assessment and mitigation planning.

#### **Deliverables:**

- Feasibility Study Report
- Project Charter
- Project Plan
- Risk Management Plan

- Budget and Resource Plan

**Responsible Parties:**

- Project Manager
- Business Analysts
- Stakeholders

**2. Requirements Analysis Phase**

**Objective:** Gather detailed requirements from stakeholders and document them comprehensively.

**Activities:**

- Conduct requirement gathering sessions (interviews, surveys, workshops).
- Analyze and prioritize requirements.
- Document functional and non-functional requirements.
- Create use case diagrams and user stories.
- Obtain requirement sign-off from stakeholders.

**Deliverables:**

- Requirements Specification Document
- Use Case Diagrams
- User Stories
- Requirements Traceability Matrix

**Responsible Parties:**

- Business Analysts
- Stakeholders
- Project Manager

**3. Design Phase**

**Objective:** Develop the architecture and design of the system based on requirements.

**Activities:**

- Design system architecture.
- Create high-level and detailed design documents.
- Develop database schema.
- Design user interfaces (wireframes, mockups).
- Review and finalize design with stakeholders.

**Deliverables:**

- System Architecture Document
- High-Level Design (HLD) Document
- Low-Level Design (LLD) Document
- Database Design Document
- UI/UX Design Mockups

**Responsible Parties:**

- System Architects
- Designers
- Business Analysts

#### 4. Development Phase

**Objective:** Develop the system components based on the design specifications.

**Activities:**

- Set up development environment.
- Develop and integrate modules.
- Conduct unit testing.
- Perform code reviews and peer reviews.
- Integrate the system and conduct integration testing.

**Deliverables:**

- Source Code
- Unit Test Cases and Results
- Integration Test Cases and Results

**Responsible Parties:**

- Developers
- Quality Assurance (QA) Team
- Technical Leads

**5. Testing Phase**

**Objective:** Validate the system to ensure it meets the specified requirements and is free of defects.

**Activities:**

- Develop test plan and test cases.
- Perform system testing (functional, performance, security testing).
- Conduct user acceptance testing (UAT).
- Identify and fix defects.
- Validate defect fixes and conduct regression testing.

**Deliverables:**

- Test Plan
- Test Cases and Test Data
- Test Results and Defect Logs
- UAT Sign-Off

**Responsible Parties:**

- QA Team
- Testers

- End Users (for UAT)

## 6. Deployment Phase

**Objective:** Deploy the system to the production environment for use by end-users.

**Activities:**

- Prepare deployment plan.
- Set up production environment.
- Conduct deployment readiness review.
- Deploy the system to production.
- Conduct post-deployment verification.

**Deliverables:**

- Deployment Plan
- Deployment Scripts and Guides
- Deployment Verification Report

**Responsible Parties:**

- Deployment Team
- System Administrators
- Project Manager

## 7. Maintenance Phase

**Objective:** Provide ongoing support and maintenance to ensure the system operates smoothly.

**Activities:**

- Monitor system performance.
- Provide technical support and issue resolution.
- Conduct periodic system updates and patches.



- Implement minor enhancements.
- Conduct regular backups and disaster recovery drills.

**Deliverables:**

- Maintenance Plan
- Issue Logs and Resolution Reports
- System Update and Patch Logs

**Responsible Parties:**

- Maintenance Team
- Support Team
- System Administrators

**Additional Documentation****Project Management Documents:**

- Gantt Charts
- Progress Reports
- Meeting Minutes

**Technical Documentation:**

- API Documentation
- Configuration Management Plan
- Version Control Records

**User Documentation:**

- User Manuals
- Training Materials
- FAQ and Troubleshooting Guides

**Conclusion**

This SDLC documentation provides a structured approach to developing the login and booking functionalities, ensuring that each phase is thoroughly planned, executed, and monitored. By following this SDLC process, the project team can deliver a high-quality, reliable, and user-friendly system.