## Day 4 - SDLC

**Assignment 1: Agile Project Planning - Create a one-page project plan for a new software feature using Agile planning techniques. Include backlog items with estimated story points and a prioritised list of user stories.**

[**https://docs.google.com/spreadsheets/d/1aahqVggFKjwhIvlOqBxhsvKIF82tqNr\_FBEgJymrSDQ/edit?gid=0#gid=0**](https://docs.google.com/spreadsheets/d/1aahqVggFKjwhIvlOqBxhsvKIF82tqNr_FBEgJymrSDQ/edit?gid=0#gid=0)

**Assignment 2**

**1.difference between scrum vs Kanban**

| **Aspect** | **Scrum** | **Kanban** |
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| **Framework** | * Prescriptive framework with defined roles, ceremonies, and artifacts. * Uses sprints (time-boxed iterations) for work. | * Flexible, continuous flow approach with minimal rules. * No fixed timeframes, work is pulled as capacity permits. |
| **Roles** | * Specific roles: Product Owner, Scrum Master, Development Team. * Clear responsibilities for each role. | * No prescribed roles. * Team members share responsibilities and manage their own work. |
| **Planning** | * Sprint planning meetings to define tasks for the sprint. * Emphasis on commitment to deliverables within the sprint. | * Continuous planning based on task priority. * Focus on managing work in progress (WIP) limits to optimize flow. |
| **Meetings** | * Regular ceremonies: Daily Stand-up, Sprint Planning, Sprint Review, Sprint Retrospective. | * Daily stand-up meetings optional.<br>- No required ceremonies, but may have regular check-ins. |
| **Board** | * Scrum board with columns for tasks in the current sprint. * Tasks move through predefined stages (To Do, In Progress, Done). | * Kanban board with customizable columns. * Tasks move through stages at their own pace. |
| **Example** | * E-commerce website | * Car Manufacturing |

**2. write 3 user stories with acceptance creteria.**

### **User Story 1:**

**User Story:**

As a **student**, I want to **view my course schedule** so that **I can plan my study time effectively**.

**Acceptance Criteria:**

* The user should be able to access their schedule from the dashboard.
* The schedule should display all courses for the current semester.
* Each course entry should include the course name, professor, time, and location.
* The schedule should be visually clear and easy to read.
* The user should be able to switch between weekly and monthly views.
* The schedule should update automatically if there are any changes to the course schedule.

### **User Story 2:**

**User Story:**

As a **traveller**, I want to **book a flight** so that **I can travel to my destination**.

**Acceptance Criteria:**

* The user should be able to search for flights based on departure and destination cities, dates, and number of passengers.
* The search results should display available flights with details such as airline, departure time, arrival time, and price.
* The user should be able to select a flight and enter passenger details for booking.
* The user should receive a booking confirmation after completing the booking process.
* The booking should be saved in the user's account for future reference.
* The user should receive an email with the booking details.

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### **User Story 3:**

**User Story:**

As a **manager**, I want to **approve employee vacation requests** so that **I can manage staffing effectively**.

**Acceptance Criteria:**

* The manager should receive a notification when a new vacation request is submitted.
* The request should include details such as the employee's name, requested dates, and reason for the request.
* The manager should be able to approve or reject the request directly from the notification.
* The manager should be able to view a list of all pending vacation requests.
* The status of each request (approved, rejected, pending) should be clearly indicated.
* The manager should be able to add comments when approving or rejecting a request.

**3. write product backlog and backlog for your project.**

<https://docs.google.com/spreadsheets/d/11bzJ3bHw9u6HPJ65zxV3MFNTvAdooyNqh53TQkXqr8s/edit?gid=527927617#gid=527927617>

**4. set a Kanban board for your project.**

### **Kanban Board:**

| **To Do:** | **In Progress:** | **Completed:** |
| --- | --- | --- |
| * Research existing online flight booking systems. * Define user roles and their permissions. * Create wireframes for the user interface. | * Draft the User Login section. * Outline the Flight Listing functionality. * Start designing the Admin Dashboard. | * Completed research on online flight booking systems. * Defined user roles and permissions. * Created wireframes for the user interface. |