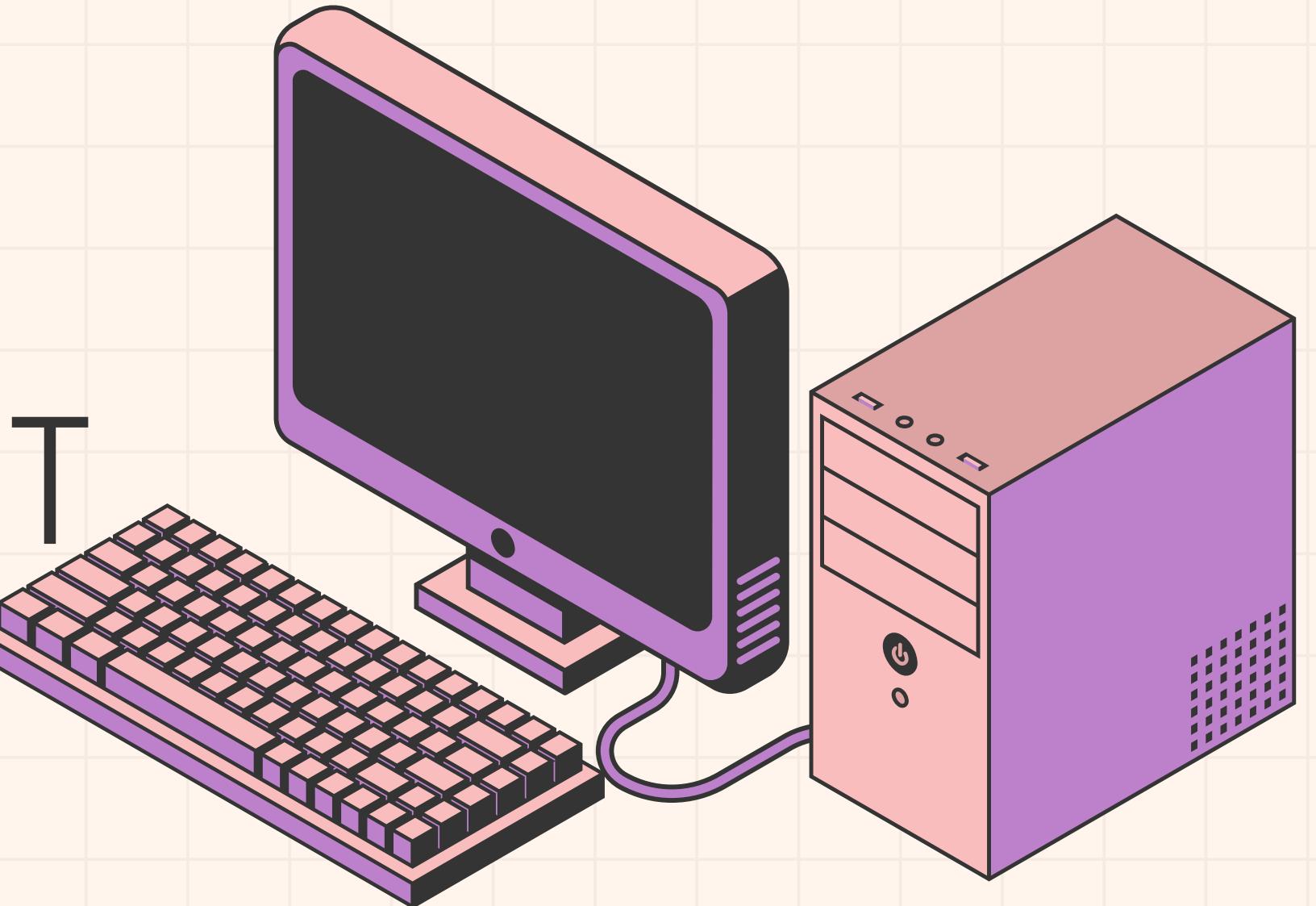


# PLAN-IT

## EVENT MANAGEMENT

Emaan Ali 22i2325 ~ Wania Naeem 22i2369 ~ Nabeeha Shafiq 22i-2336



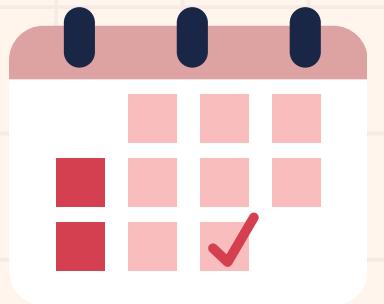


# Purpose



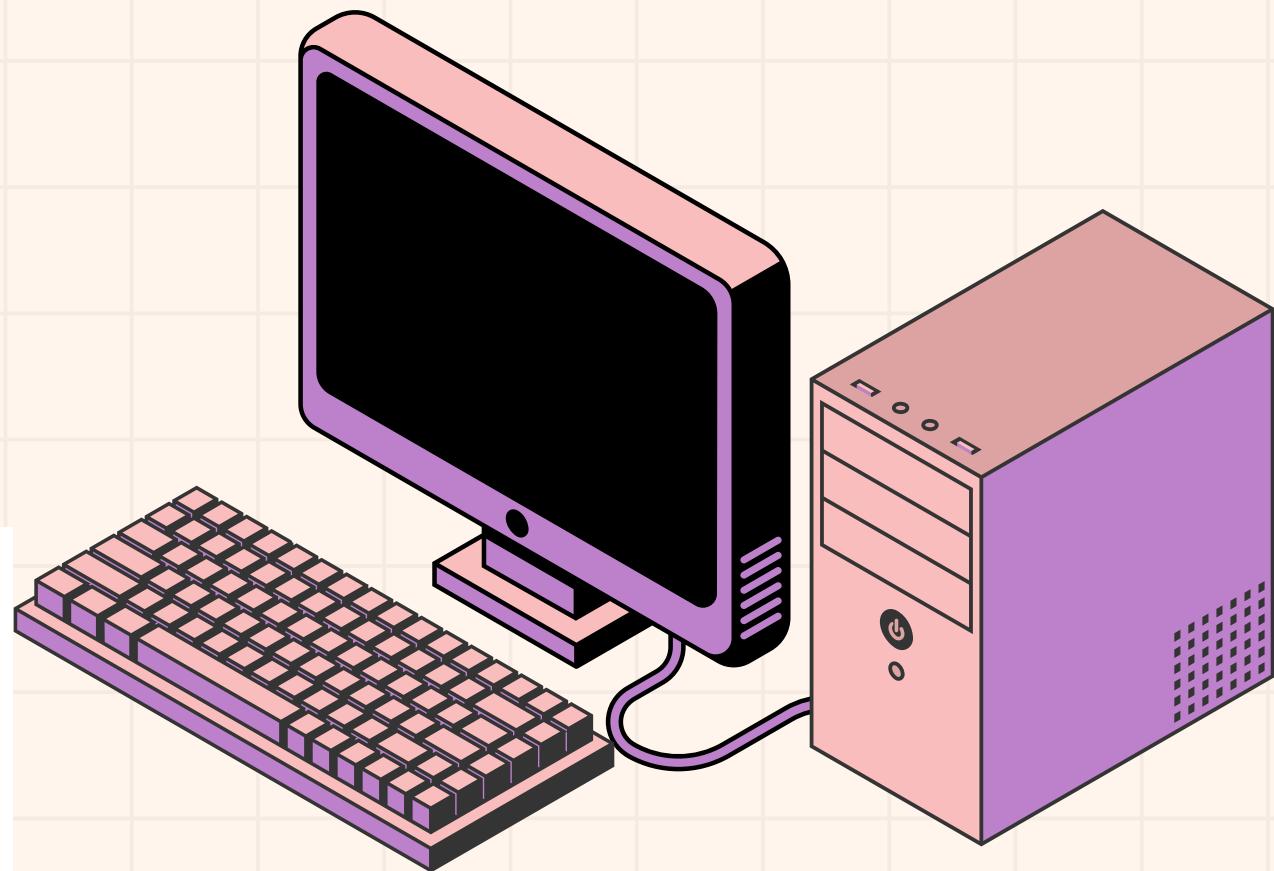
Aims to assist users in planning various events:

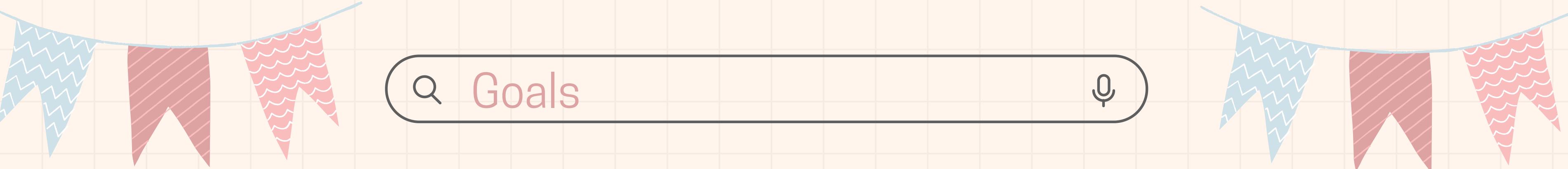
- Weddings
- Birthdays
- Parties
- Other personal or professional events



Provides a centralized platform to:

- Integrate all ideas related to an event
- Manage different aspects (e.g., guest list, venue, catering, etc.)

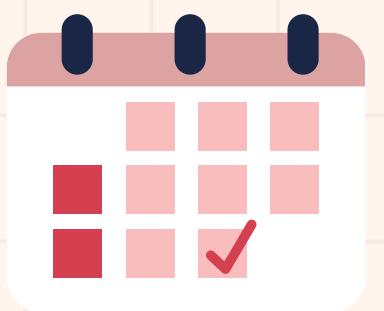




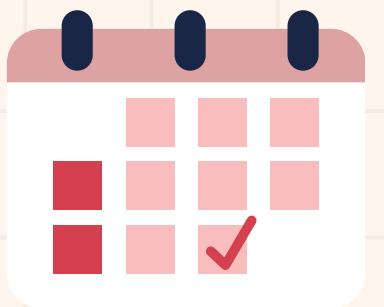
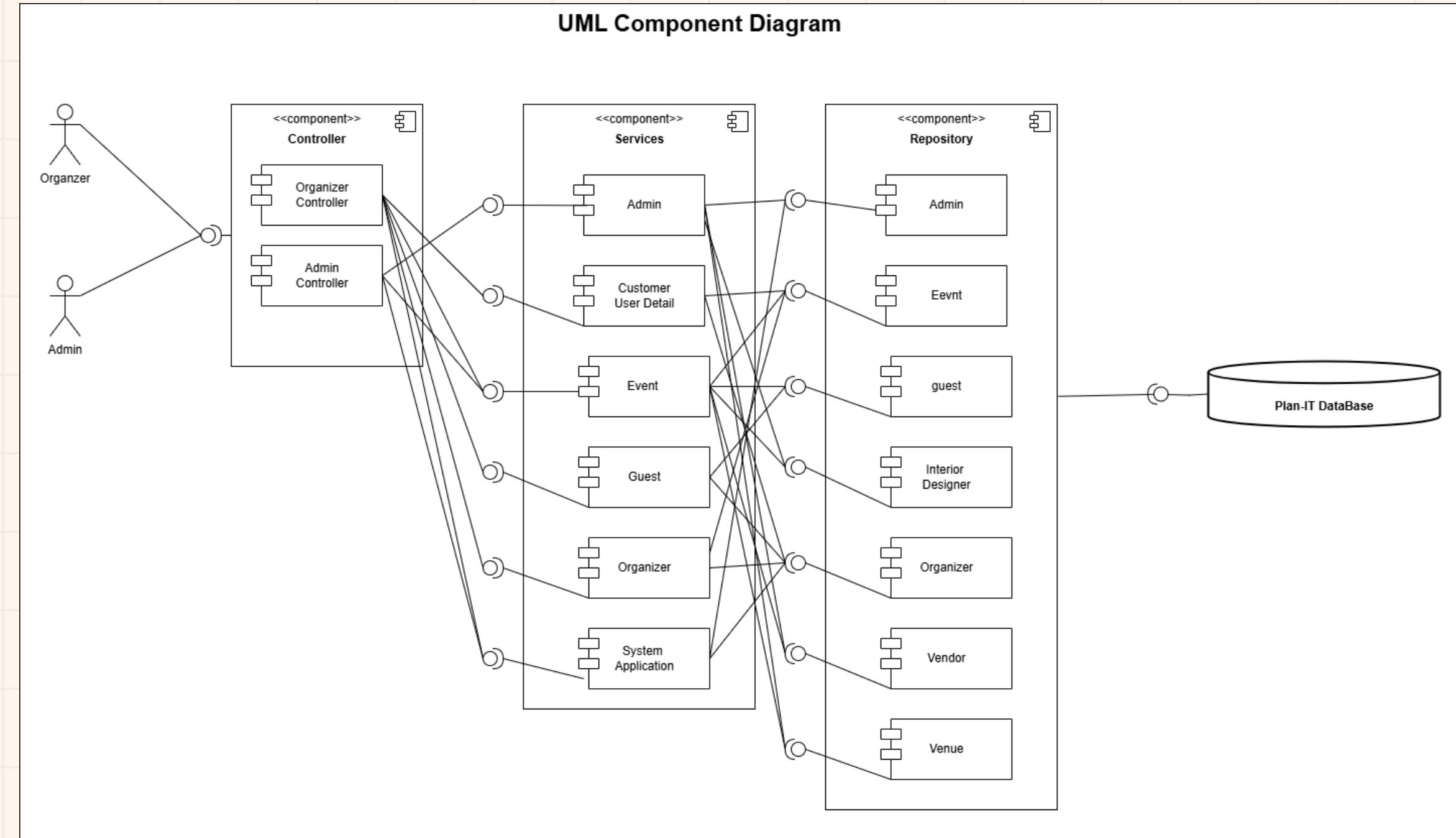
# Goals



- Provide a simple, minimalistic, and easy-to-use application.
- Address the needs of users in today's fast-paced and multitasking world.
- Offer efficient tools to organize and simplify complex events.
- Develop a user-friendly platform that requires minimal learning curve.
- Become the go-to solution for individuals planning:
  - Weddings
  - Birthdays
  - Parties
  - Other personal or social events

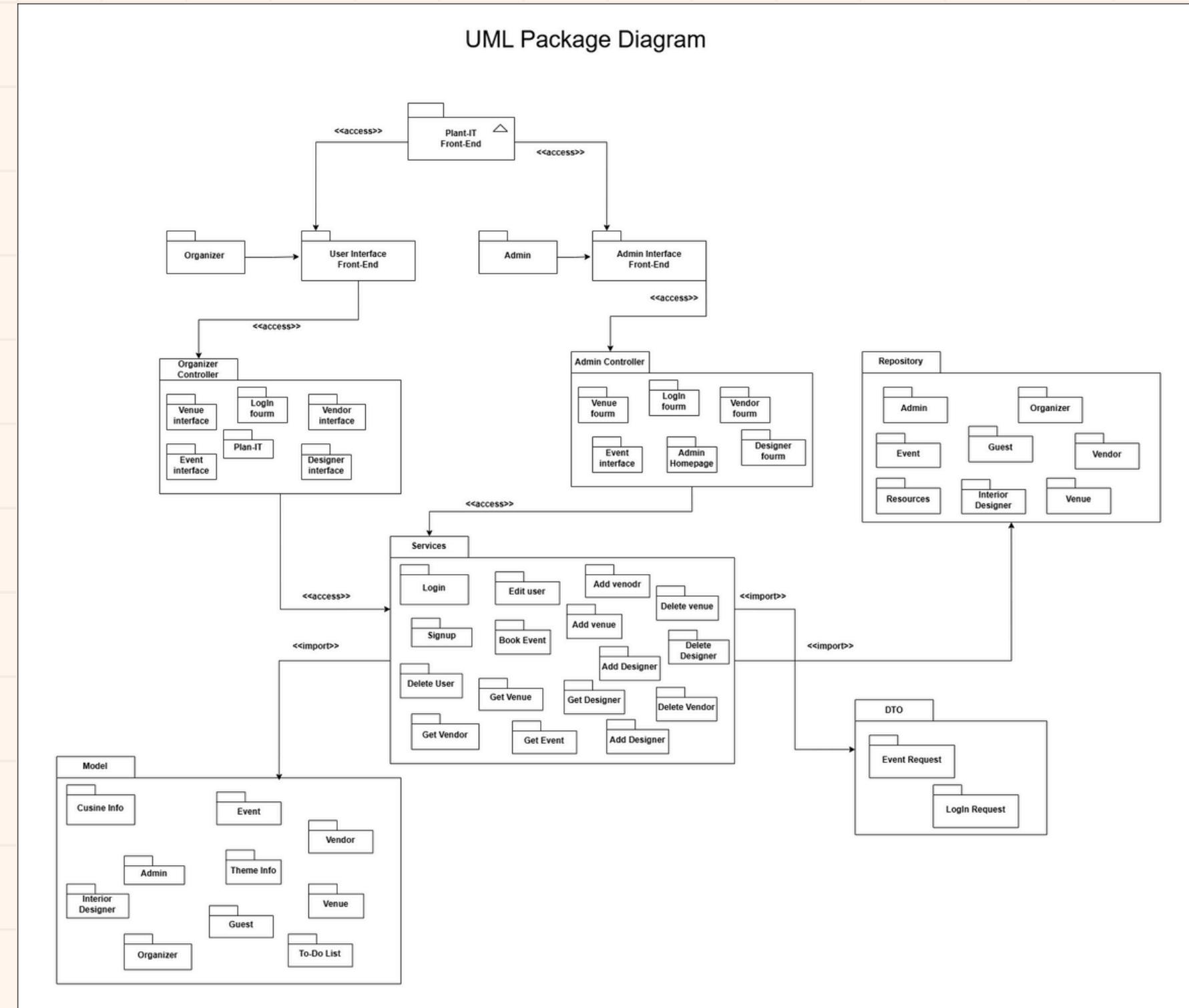


# UML Diagram - Component



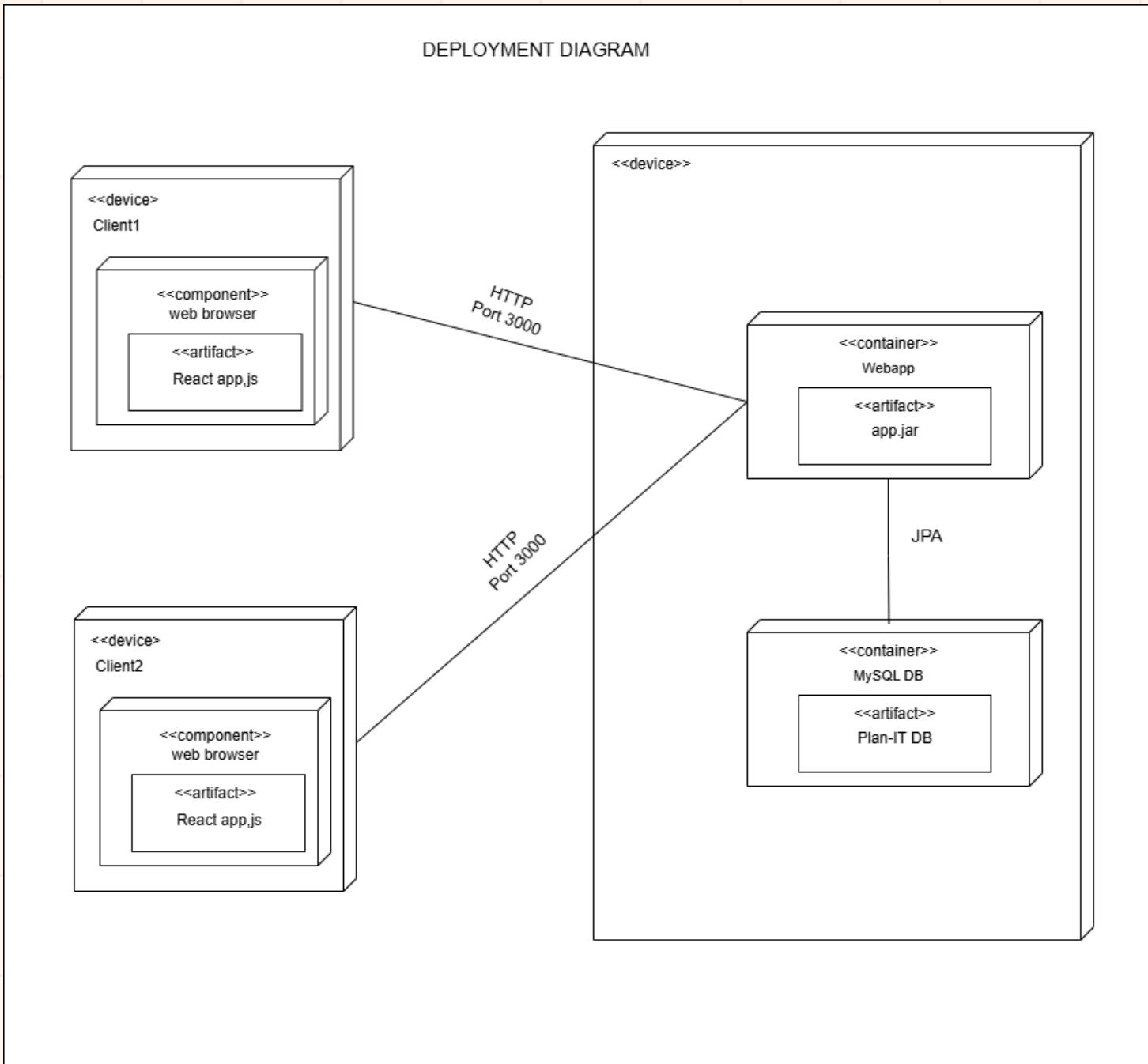
Page 04

# UML Diagram - Package

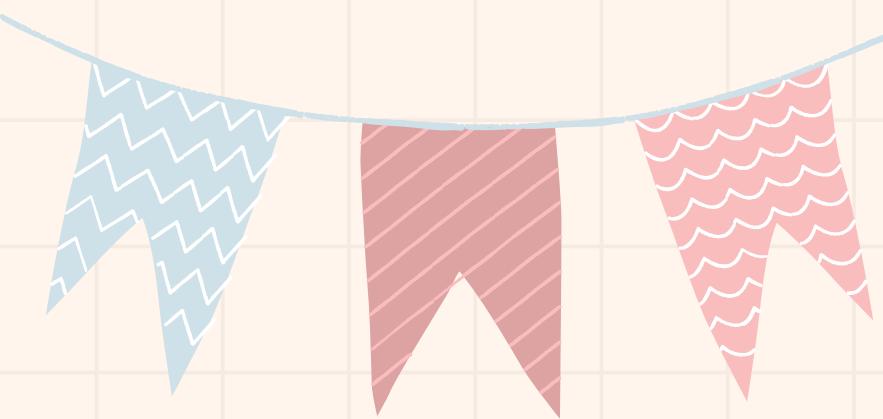


Page 05

# UML Diagram - Deployment



Page 05



## Project Analysis

### 1. Requirement Gathering:

- Analyzed user needs through brainstorming, competitor analysis, and expectations.

### 2. Feasibility Analysis:

- Assessed technical (React, Spring Boot, MySQL), operational, and financial feasibility.

### 3. Project Approval:

- Proposal approved by instructors after feasibility and requirement finalization.

## System Design

### 1. UI/UX Design:

- Clean, minimalist, user-friendly interface using CSS & JavaScript.

### 2. Customer Web App Screens:

- Screens for event creation, guest management, vendor & venue booking.

### 3. Admin Dashboard Screens:

- Admin features for managing venues, vendors, users, and notifications.

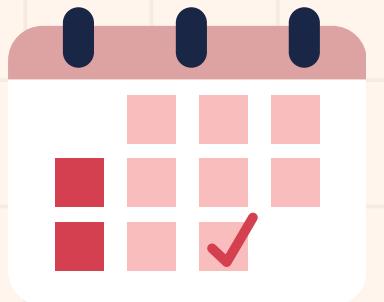
### 4. Database Design:

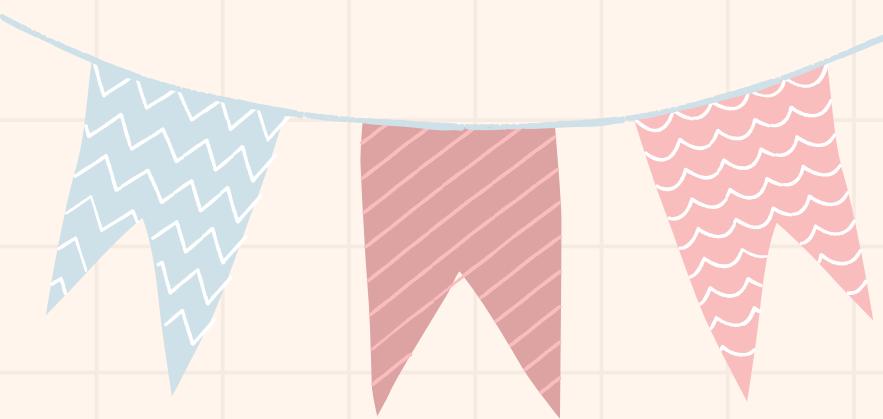
- Normalized tables (up to 3NF) for Users, Events, Guests, Vendors, Venues, Invitations.

### 5. Architecture Design:

### 6. Three-tier:

- React.js frontend, Spring Boot backend, MySQL database with JPA/Hibernate.





## Frontend Development (React.js)

### 1. User Registration & Login:

- React-based secure signup/login pages.

### 2. Event Management:

- Create events, manage dates, guests, and vendors.

### 3. Venue Booking:

- Browse and book venues with capacity details.

### 4. Vendor Booking:

- Easy booking of services like catering, decor, photography.

### 5. Responsive Design Testing:

- Optimized for laptops, tablets, and smartphones.

## Backend Development (Spring Boot)

### 1. RESTful APIs:

- Handle communication between frontend and backend.

### 2. User Management APIs (api/organizer):

- User registration, login, profile & event data management.

### 3. Event Management APIs (within organizer module):

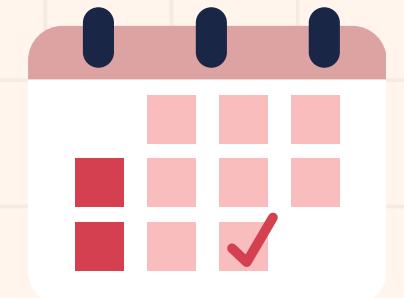
- Create, update, and manage event details.

### 4. Venue Management APIs (within organizer module):

- View, book, and manage venues.

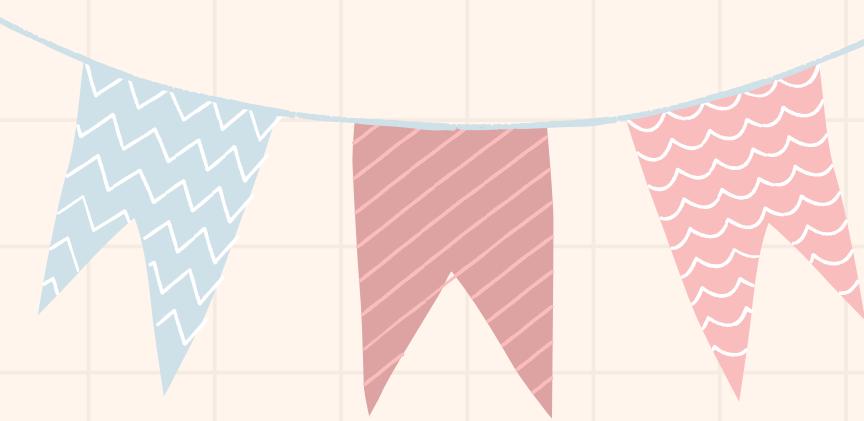
### 5. Vendor Management APIs (api/admin):

- Admin controls for adding, updating, and removing vendors.





# Work Break Down



## Database Management (MySQL)

### 1. Schema Design:

- Tables with primary & foreign keys for relational integrity.

### 2. Entity Mapping:

- Used Hibernate & JPA for object-relational mapping.

### 3. Data Validation:

- Applied constraints (NOT NULL, UNIQUE, FOREIGN KEY) to ensure data accuracy.

## Testing

### 1. Unit Testing:

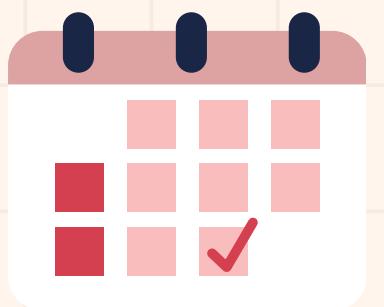
- Tested individual components and APIs for correctness.

### 2. Integration Testing:

- Ensured seamless interaction between frontend and backend.

### 3. User Acceptance Testing (UAT):

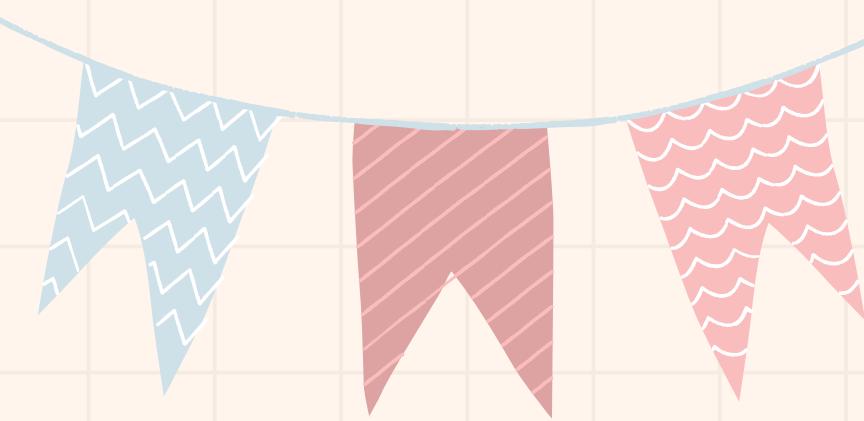
- Verified functionality with feedback from sample users and developers.



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# Work Break Down

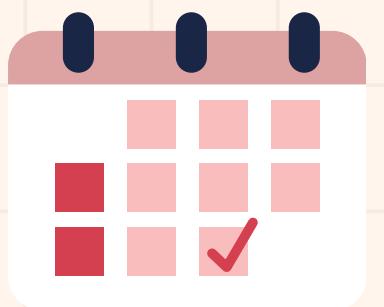


## Deployment

- 1. Frontend & Backend Deployment:**
  - Host on cloud server for live usage.
- 2. Database Deployment:**
  - Secure MySQL integration with backend.
- 3. Production Setup:**
  - Configure security, backups, and API monitoring.
  -

## Documentation

- 1. SRS Document:**
  - Defined system requirements to align team and future developers.
- 2. Deployment & Maintenance Guides:**
  - Documented deployment steps and ongoing update/bug-fix process.



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# Project planner-Sprint backlog

## Sprint 1

Sprint 1 BackLog						
ID	Organizer Story	Tasks	Owner	Status	Estimated Effort	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
US01	Organizer Login	Design and implement login page	Wania	Completed	8	2
US02	Organizer Create Account	Design and implement signup page	Wania	Completed	6	2
US03	Organizer Manage/Edit/Delete Account	Implement edit account functionality	Wania	Completed	10	3
US04	Admin Create/Add Event Venues	Create event venues admin interface and functionality	Nabeeha	Completed	12	4
US05	Admin Edit Event Venues	Edit event venues admin interface and functionality	Nabeeha	Completed	8	3

The Gantt chart displays the estimated effort for each task in Sprint 1 across 7 days. The Y-axis represents effort from 0 to 12, and the X-axis lists tasks: US01, US02, US03, US04, and US05. The legend indicates: Estimated Effort (blue bars), Day 1 (red line), Day 2 (yellow line), Day 3 (green line), Day 4 (orange line), Day 5 (teal line), Day 6 (light blue line), and Day 7 (pink line).

Task	Estimated Effort	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Organizer Login	8	3	2	2	1	0	0	
Organizer Create Account	6	2	1	2	1	0	0	
Organizer Manage/Edit/Delete Account	10	3	3	2	1	1	0	
Admin Create/Add Event Venues	12	4	4	2	2	0	0	
Admin Edit Event Venues	8	3	3	1	1	0	0	

## Sprint 2

Sprint 2 BackLog						
ID	Organizer Story	Tasks	Owner	Status	Estimated Effort	
Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
US08	Admin Create/Add Vendors	Design admin interface for vendor management	Nabeeha	Completed	10	3
US09	Admin Edit Vendor Info/Delete Vendors	Implement vendor editing and deletion functionality	Nabeeha	Completed	8	3
US10	Organizer Book Event Venue	Implement event venue booking functionality	Wania	Completed	12	4
US11	Organizer Edit Event Venue	Implement event venue editing functionality	Wania	Completed	8	3
US18	Organizer Add Guests to Guest List	Implement guest list management functionality	Eman	Completed	6	2
US19	Organizer Edit Guest List	Edit guest list management functionality	Eman	Completed	8	3

The Gantt chart displays the estimated effort for each task in Sprint 2 across 7 days. The Y-axis represents effort from 0 to 12, and the X-axis lists tasks: US08, US09, US10, US11, US18, and US19. The legend indicates: Estimated Effort (blue bars), Day 1 (red line), Day 2 (yellow line), Day 3 (green line), Day 4 (orange line), Day 5 (teal line), Day 6 (light blue line), and Day 7 (pink line).

Task	Estimated Effort	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7
Admin Create/Add Vendors	10	3	3	2	2	0	0	
Admin Edit Vendor Info/Delete Vendors	8	2	2	1	0	0		
Organizer Book Event Venue	12	4	3	3	2	0		
Organizer Edit Event Venue	8	3	2	2	1	0		
Organizer Add Guests to Guest List	6	2	2	1	1	0		
Organizer Edit Guest List	8	3	2	2	1	0		



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# Project planner- Gantt chart

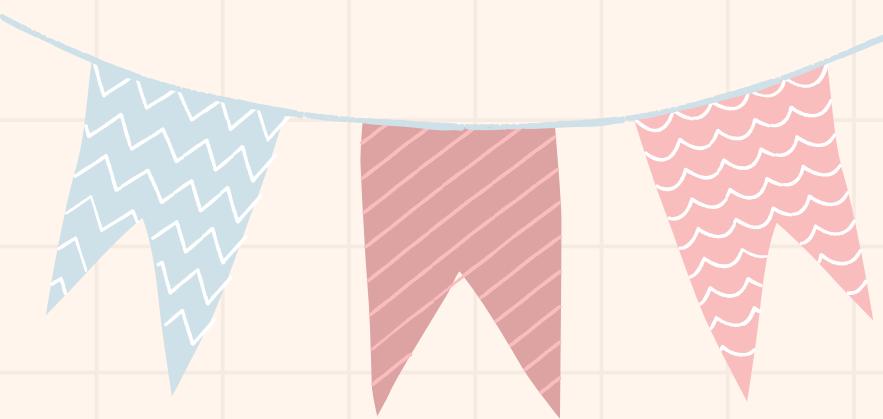


Task	Start	End	
1. Project Analysis	3/16/2025	3/19/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Requirement Gathering	3/20/2025	3/23/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Feasibility Analysis	3/24/2025	3/27/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Project Approval			
2. System Design	3/28/2025	3/31/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
UI/UX Design	4/1/2025	4/4/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Customer Web App Screens	4/5/2025	4/8/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Admin Dashboard Screens	4/9/2025	4/12/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Database Design	4/13/2025	4/16/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Architecture Design			
3. Frontend Development (React.js)	4/17/2025	4/20/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
User Registration & Login Pages	4/21/2025	4/24/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Event Creation and Management	4/25/2025	4/28/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Venue Booking Interface	4/29/2025	5/2/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Vendor Booking Interface			
4. Backend Development (Spring Boot)	5/3/2025	5/6/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
API Development	5/7/2025	5/10/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
User Management APIs	5/11/2025	5/14/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Event Management APIs	5/15/2025	5/18/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Venue Management APIs	5/19/2025	5/22/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Vendor Management APIs			
5. Database Management (MySQL)	5/23/2025	5/26/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Schema Design and Creation	5/27/2025	5/30/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Entity Relationships and Mapping	5/31/2025	6/3/2025	<div style="width: 100%; height: 10px; background-color: blue;"></div>
Data Validation and Constraints			





# User stories



## User Story 1: User Login

As a user/admin

I want to log in to the system

So that I can access my account and use the app's features.

### Pre-conditions:

User has an existing account with valid credentials.

### Post-conditions:

User is authenticated and granted access to the system.

## User Story 2: Rent Vendor (User)

As a user

I want to rent vendors (such as caterers, and decorators) for my event

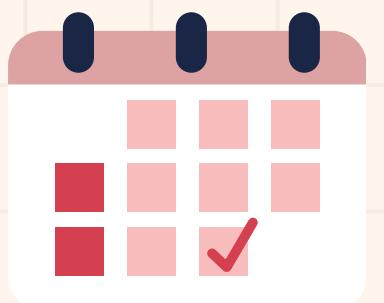
So that I can ensure all services for my event are booked.

### Pre-conditions:

The user is logged in and has selected the desired vendor.

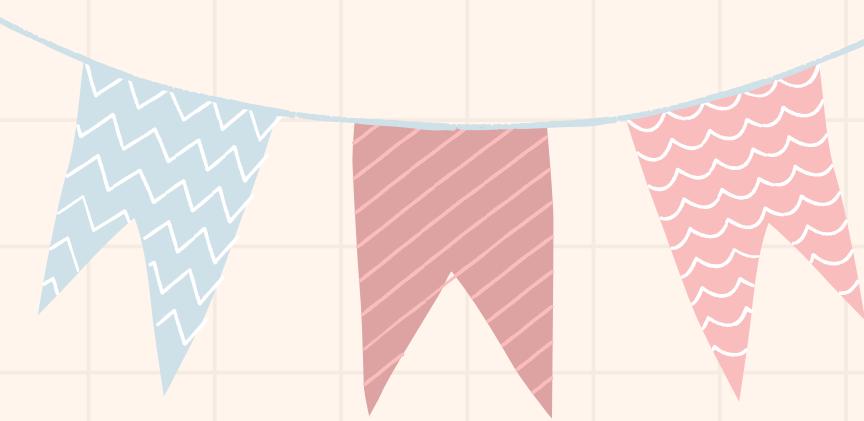
### Post-conditions:

Vendor is successfully booked for the event.





# User stories



## User Story 3: Rent Event Venue (User)

As a user

I want to rent a venue for my event

So that I can secure a location for my event.

**Pre-conditions:**

User is logged in and has selected a venue.

**Post-conditions:**

Venue is successfully booked for the event

## User Story 4: Manage Event Venue Booking (User)

As a user

I want to edit/delete my booking for an event

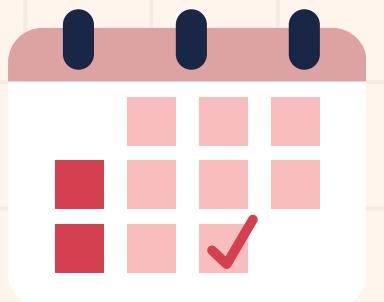
So that I can update the booking as per my preference.

**Pre-conditions:**

The user is logged in and has rented a venue.

**Post-conditions:**

The venue is successfully edited/deleted for the event.



# Product backlog

"PlanIt"

## Product BackLog

ID	As a...	I want to be able to...	So that...	Priority	Sprint	Status
1	Organizer	Login to the system	I can access and manage my events	High	Sprint 1	Completed
2	Organizer	Create an account/sign up	I can use the app and manage my events	High	Sprint 1	Completed
3	Organizer	Manage/edit/delete my account	I can keep my account up-to-date	High	Sprint 1	Completed
4	Admin	Create/add event venues to the system	organizers can book available venues	High	Sprint 1	Completed
5	Admin	Edit venue info/delete venues	Venue details are up-to-date and accurate	Medium	Sprint 1	Completed
6	Admin	Create/add interior designers to the system	Organizers can rent them for events	High	Sprint 4	Completed
7	Admin	Edit interior designers' info/delete designers	Designer details are updated and accurate	Medium	Sprint 4	Completed
8	Admin	Create/add vendors to the system	Organizers can rent them for events	High	Sprint 2	Completed
9	Admin	Edit vendor info/delete vendors	Vendors' details are up-to-date and accurate	Medium	Sprint 2	Completed
10	Organizer	Book an event venue available on the app	I can host my event at the chosen venue	High	Sprint 2	Completed
11	Organizer	Edit the event venue available on the app	The venue details are correct for my event	Medium	Sprint 2	Completed
12	Organizer	Rent a vendor	My event can have the necessary vendors	High	Sprint 3	Completed
13	Organizer	Edit/delete my rented vendor	I can make changes to the vendor selection	Medium	Sprint 3	Completed
14	Organizer	Rent an interior designer	My event can have the desired theme and decor	High	Sprint 3	To be started
15	Organizer	Edit/delete my rented interior designer	I can make changes to my designer selection	Medium	Sprint 3	Completed
16	Organizer	Make a to-do list	I can organize and keep track of tasks for my event	Medium	Sprint 4	Completed
17	Organizer	Edit/delete my to-do list	I can update or remove tasks as needed	Medium	Sprint 4	Completed

"PlanIt"

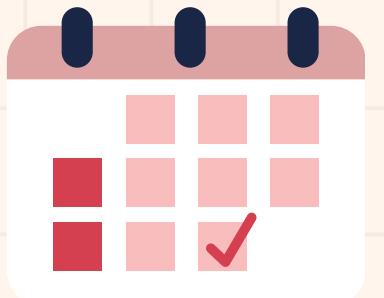
## Product BackLog

ID	As a...	I want to be able to...	So that...	Priority	Sprint	Status
1	Organizer	Login to the system	I can access and manage my events	High	Sprint 1	Completed
2	Organizer	Create an account/sign up	I can use the app and manage my events	High	Sprint 1	Completed
3	Organizer	Manage/edit/delete my account	I can keep my account up-to-date	High	Sprint 1	Completed
4	Admin	Create/add event venues to the system	organizers can book available venues	High	Sprint 1	Completed
5	Admin	Edit venue info/delete venues	Venue details are up-to-date and accurate	Medium	Sprint 1	Completed
6	Admin	Create/add interior designers to the system	Organizers can rent them for events	High	Sprint 4	Completed
7	Admin	Edit interior designers' info/delete designers	Designer details are updated and accurate	Medium	Sprint 4	Completed
8	Admin	Create/add vendors to the system	Organizers can rent them for events	High	Sprint 2	Completed
9	Admin	Edit vendor info/delete vendors	Vendors' details are up-to-date and accurate	Medium	Sprint 2	Completed
10	Organizer	Book an event venue available on the app	I can host my event at the chosen venue	High	Sprint 2	Completed
11	Organizer	Edit the event venue available on the app	The venue details are correct for my event	Medium	Sprint 2	Completed
12	Organizer	Rent a vendor	My event can have the necessary vendors	High	Sprint 3	Completed
13	Organizer	Edit/delete my rented vendor	I can make changes to the vendor selection	Medium	Sprint 3	Completed
14	Organizer	Rent an interior designer	My event can have the desired theme and decor	High	Sprint 3	Completed
15	Organizer	Edit/delete my rented interior designer	I can make changes to my designer selection	Medium	Sprint 3	Completed
16	Organizer	Make a to-do list	I can organize and keep track of tasks for my event	Medium	Sprint 4	Completed
17	Organizer	Edit/delete my to-do list	I can update or remove tasks as needed	Medium	Sprint 4	Completed

"PlanIt"

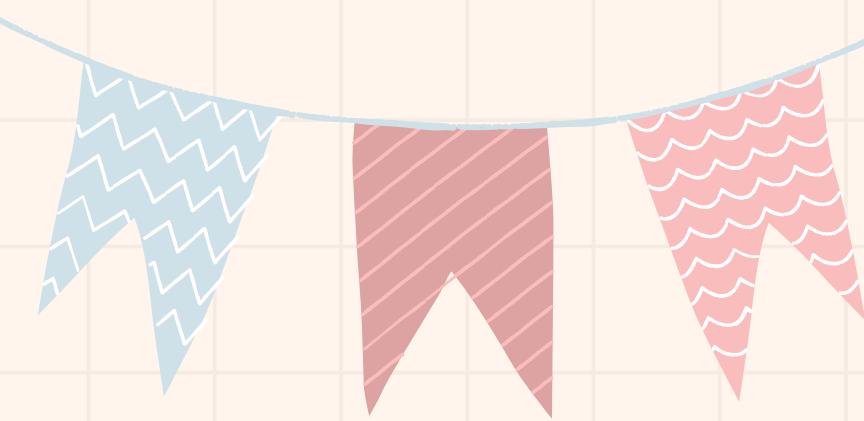
## Product BackLog

ID	As a...	I want to be able to...	So that...	Priority	Sprint	Status
1	Organizer	Login to the system	I can access and manage my events	High	Sprint 1	Completed
2	Organizer	Create an account/sign up	I can use the app and manage my events	High	Sprint 1	Completed
3	Organizer	Manage/edit/delete my account	I can keep my account up-to-date	High	Sprint 1	Completed
4	Admin	Create/add event venues to the system	organizers can book available venues	High	Sprint 1	Completed
5	Admin	Edit venue info/delete venues	Venue details are up-to-date and accurate	Medium	Sprint 1	Completed
6	Admin	Create/add interior designers to the system	Organizers can rent them for events	High	Sprint 4	Completed
7	Admin	Edit interior designers' info/delete designers	Designer details are updated and accurate	Medium	Sprint 4	Completed
8	Admin	Create/add vendors to the system	Organizers can rent them for events	High	Sprint 2	Completed
9	Admin	Edit vendor info/delete vendors	Vendors' details are up-to-date and accurate	Medium	Sprint 2	Completed
10	Organizer	Book an event venue available on the app	I can host my event at the chosen venue	High	Sprint 2	Completed
11	Organizer	Edit the event venue available on the app	The venue details are correct for my event	Medium	Sprint 2	Completed
12	Organizer	Rent a vendor	My event can have the necessary vendors	High	Sprint 3	Completed
13	Organizer	Edit/delete my rented vendor	I can make changes to the vendor selection	Medium	Sprint 3	Completed
14	Organizer	Rent an interior designer	My event can have the desired theme and decor	High	Sprint 3	To be started
15	Organizer	Edit/delete my rented interior designer	I can make changes to my designer selection	Medium	Sprint 3	Completed
16	Organizer	Make a to-do list	I can organize and keep track of tasks for my event	Medium	Sprint 4	Completed
17	Organizer	Edit/delete my to-do list	I can update or remove tasks as needed	Medium	Sprint 4	Completed





# Black Box - Class Partition



## Class

Name

### Valid Range

Length  $2 \leq x \leq 50$ , alphabets  
and spaces only

### Invalid Range

$x < 2$ ,  $x > 50$ , non-alphabetic  
characters

Username

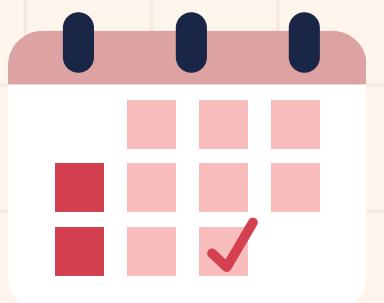
Length  $3 \leq x \leq 20$ , starts with  
letter, contains  
letters/numbers/.\_ only

$x < 3$ ,  $x > 20$ , starts with non-  
letter, invalid characters

Password

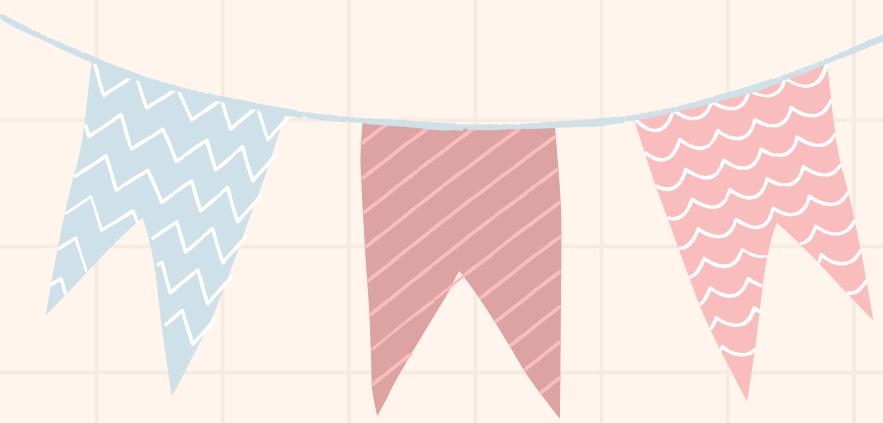
Length  $6 \leq x \leq 20$ , at least  
one letter and one number,  
allowed symbols  
 $@#$%^&+=!$

Length  $6 \leq x \leq 20$ , at least  
one letter and one number,  
allowed symbols  
 $@#$%^&+=!$





# Black Box - Class Partition



## Class

Name

Address

Date of Birth (DOB)

## Valid Range

Proper email format:  
abc@domain.com

Length  $5 \leq x \leq 100$ ,  
letters/numbers/ ,.- allowed

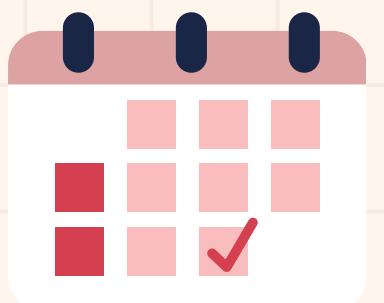
Age  $\geq 18$  years

## Invalid Range

missing '@', missing domain,  
invalid special characters

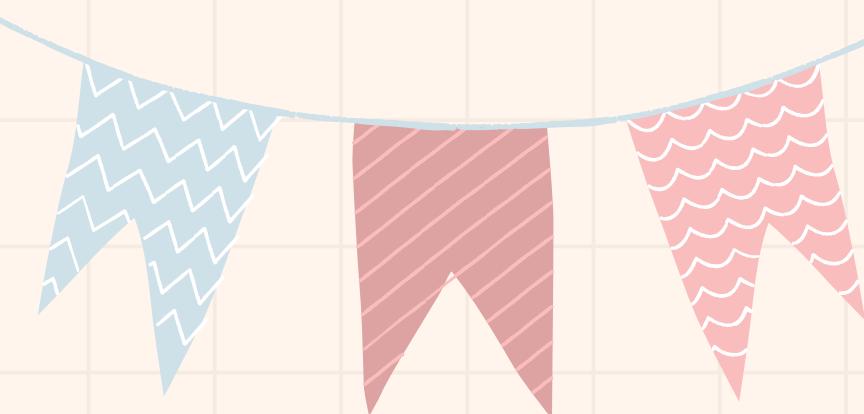
$x < 5$ ,  $x > 100$ , invalid  
characters

Age  $< 18$  years

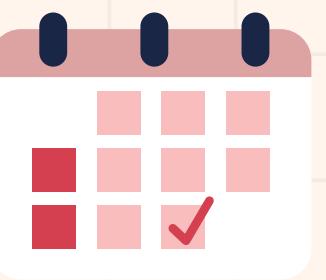


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# Boundary Value Analysis

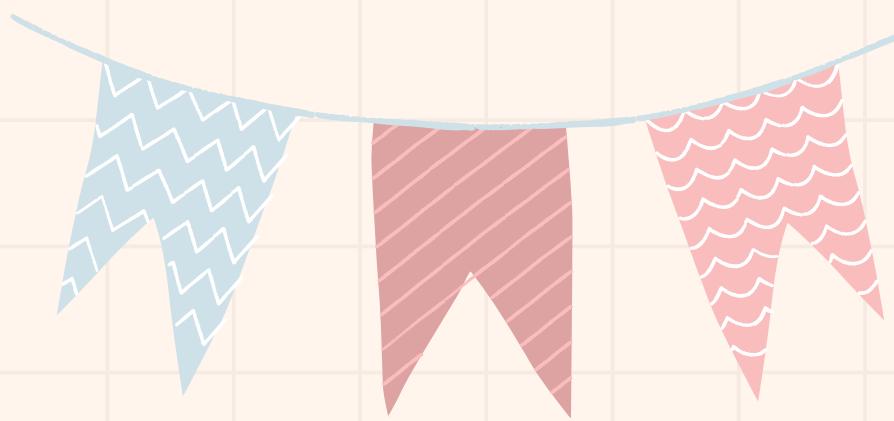


Class	Boundary Value Analyst	Expected Result
First Name Length = 2	Valid	Pass
First Name Length = 1	Invalid	Fail
Username Length = 3	Valid	Pass
Username Length = 2	Invalid	Fail
Password Length = 6	Valid	Pass
Password Length = 5	Invalid	Fail
DOB exactly 18 years ago	Valid	Pass
DOB 17 years 11 months ago	Invalid	Fail

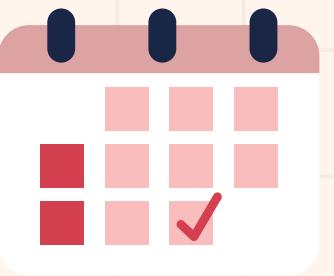




# Test Cases



Test ID	Input	Expected Output
TC01	All fields valid	Organizer registered successfully
TC02	First Name = "A" (1 character)	Validation failed (First Name)
TC02	Last Name = "1234" (numbers only)	Validation failed (Last Name)
TC04	Username = "12user" (starts with number)	Validation failed (Username)
TC05	Password = "abcdef" (no number)	Validation failed (Password)
TC06	Email = "user@domain" (missing .com)	Validation failed (Email)
TC07	Address = "abc" (only 3 characters)	Validation failed (Address)
TC08	DOB = 17 years old	Validation failed (DOB)



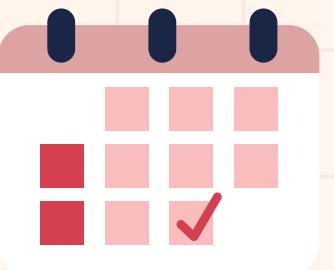


# Improvements



## Further Improvements

1. Payment Integration
2. Add secure online payment for vendors and venue bookings.
3. AI-based Recommendations
4. Suggest venues, vendors, or event ideas based on user preferences and past events.
5. Mobile App Version
6. Develop a cross-platform mobile app using React Native or Flutter for broader access.
7. Calendar & Reminders
8. Integrate calendar syncing and automated reminders for event tasks and deadlines.

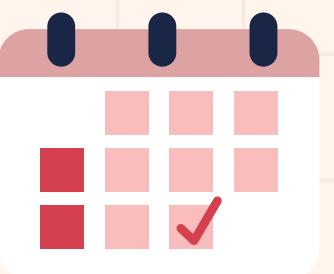


# Conclusion

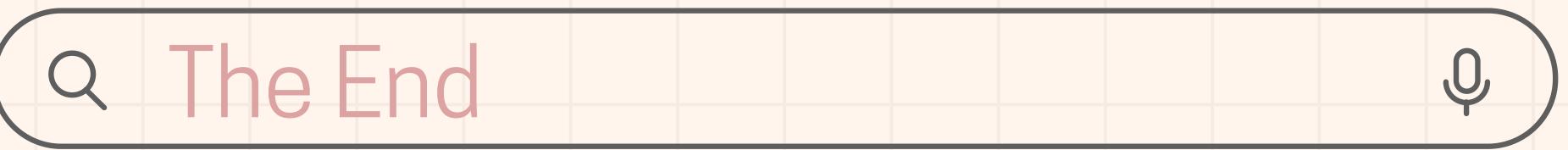


## Lesson Learnt

1. Learned a new tech stack by building a web app instead of a desktop app.
2. Gained hands-on experience with React for frontend UI – thanks to team member Emaan.
3. Understood the concept and implementation of multi-layered architecture – handled by Wania.
4. First proper understanding of what an API really is and how to use it.
5. Learned GitHub best practices (after abandoning a repo due to git conflicts).
6. Realized the importance of early planning and project management for timely submissions.



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# Thank You!

