



Dhirubhai Ambani University

Course: IT644 - WS & SOA

Group ID: 4

Project Name: Band Baaja Hub - A Wedding Management System

Team Members

ID	Names
202412001	Aarti Bodani
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202412047	Manya Singh
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Requirements Specification Document

1.1 Functional Requirements

1. User Authentication:

- Login: Registered users (couple, family, planner) can log in using email and password.
- Signup: New users can create an account by providing basic details (name, email, password, role).

2. About Us Section

- Display system purpose and features of *Band Baaja Hub*.
- Provide contact details and information about the platform.

3. Vendor Management

- Display a list of vendors (catering, decoration, photography, music, etc.).
- Allow users to view vendor details and service offerings.
Option to connect or book a vendor.

4. Packages

- Show different wedding packages (Basic, Standard, Premium).
Display package details such as price, included services, and duration.
- Allow users to select or enquire about packages.

5. Location

- Show available venues or event locations.
- Display details such as address, capacity, and availability.
Allow users to book or save a location for the event.

1.2 Non-Functional Requirements

1. Usability

- The interface must be simple and easy to navigate for non-technical users.

2. Security

- User passwords must be stored securely.
- Only registered users should access booking features.

3. Performance

- All pages (Login, Vendors, Packages, Location) should load in less than 3 seconds.

4. Compatibility

- The application must work on desktop and mobile browsers.
- Reliability.
- Daily data backup must be maintained to avoid loss.

2.1 User Stories

1. Login/Signup

- As a new user, I want to sign up so that I can create an account.
- As a registered user, I want to log in so that I can access my dashboard.

2. About Us

- As a visitor, I want to read about the system so that I know what services it offers.

3. Vendors

- As a couple, I want to view vendor details so that I can choose the right services.
- As a planner, I want to book a vendor so that arrangements are confirmed.

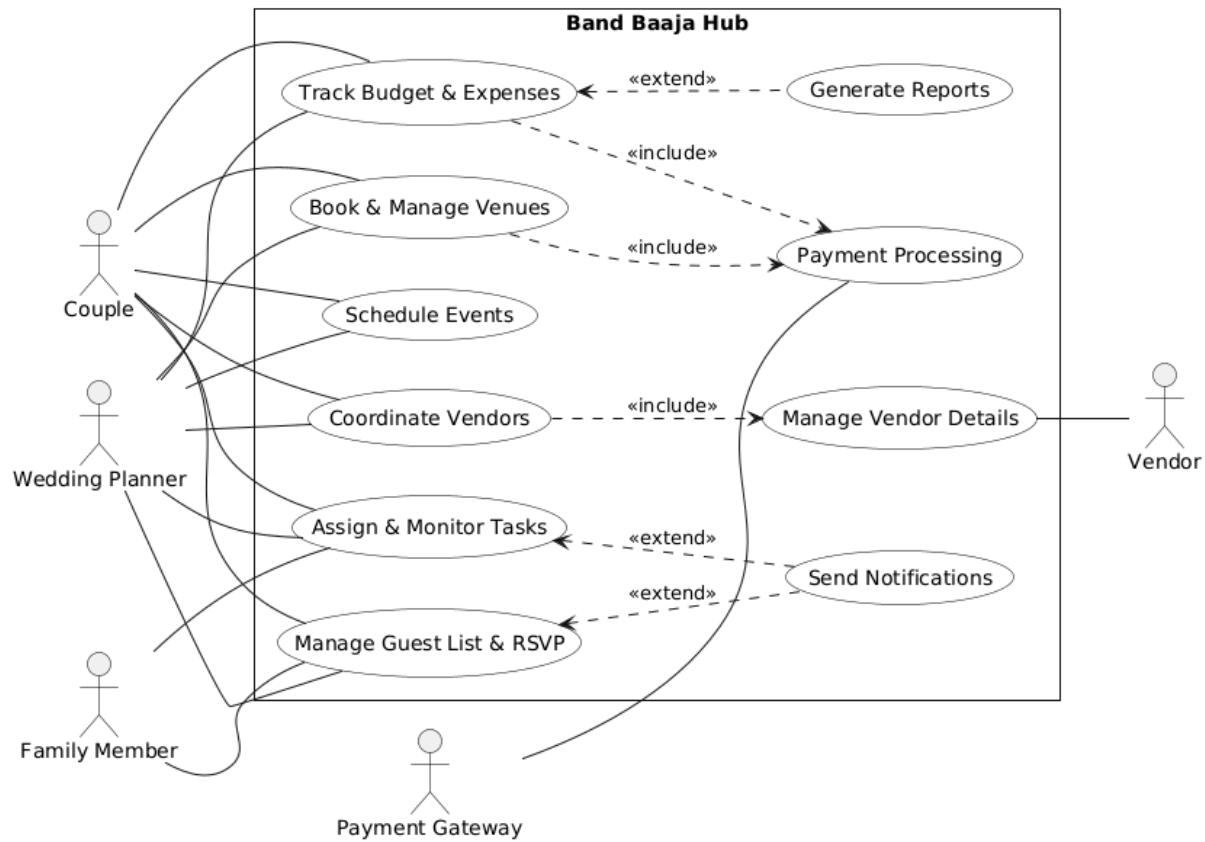
4. Packages

- As a user, I want to see different wedding packages so that I can compare and select according to my budget.

5. Location

- As a couple, I want to view available venues so that I can book one for my wedding.

2.1 UseCase Diagram:

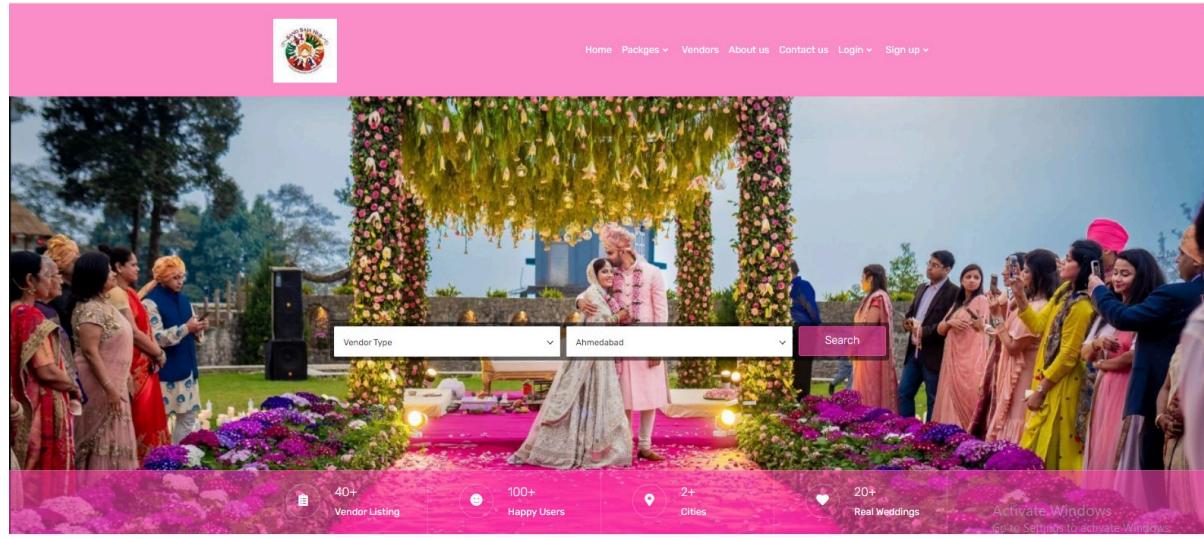


3. Interface Requirements

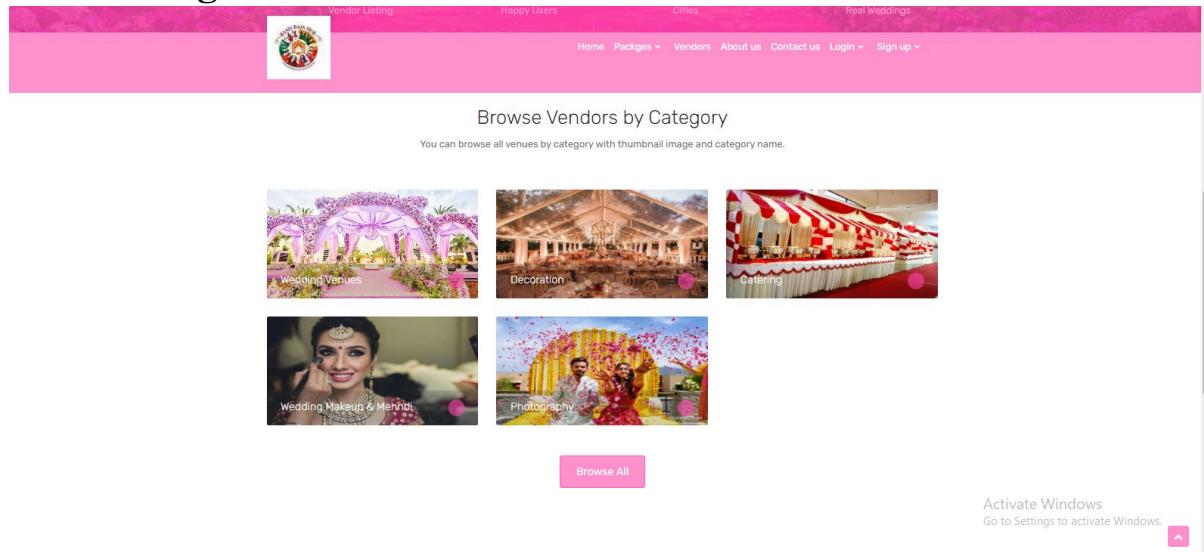
- Login Page: Email, password, role → login button.
- Signup Page: Name, email, password, role → signup button.
- About Us Page: Details of the system and contact information.
- Vendors Page: List of vendors with details and booking option.
- Packages Page: Packages with price and services included.
- Location Page: Venue details (address, capacity, availability) with booking option.

4. UI/UX frames:

Home Page



Vendor Page



Package Page

The screenshot shows a website for wedding planning. At the top, there's a pink header bar with a logo and navigation links: Home, Packages, Vendors, About us, Contact us, Login, and Sign up. Below the header is a large image of a wedding couple under a floral canopy. A search bar at the bottom of the page includes dropdowns for 'Vendor Type' and 'Location' (set to Ahmedabad) and a 'Search' button. To the right of the search bar is a vertical menu with categories: Venue, Decoration, Catering, Photography, and Makeup&Mehndi.

About Us Page

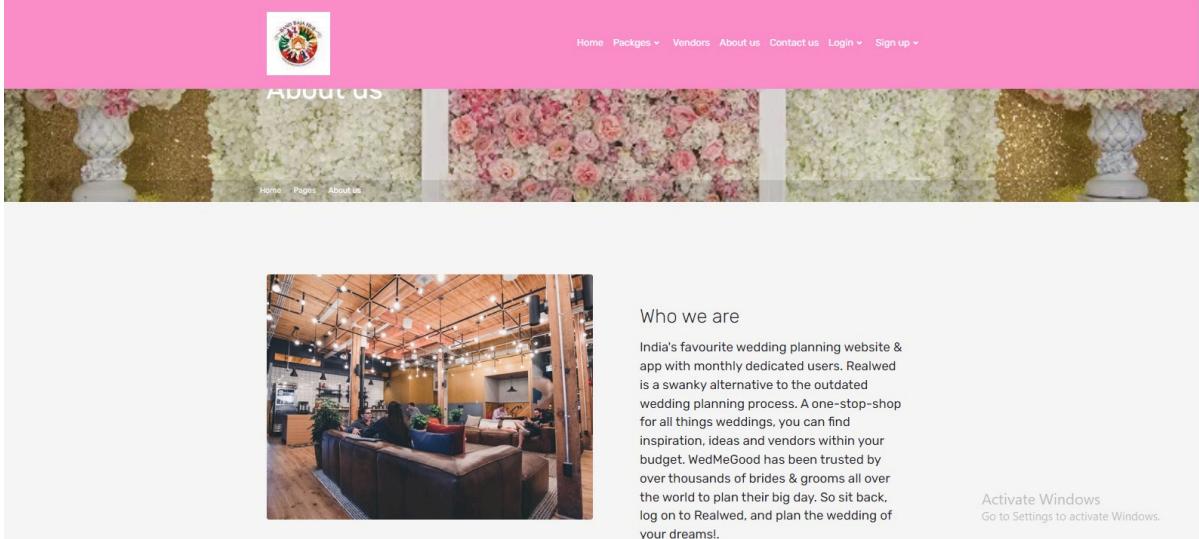
The screenshot shows the About Us page. It features a decorative banner with floral arrangements and a central title 'ABOUT US'. Below the banner is a navigation bar with links: Home, Pages, and About us. The main content area contains a photograph of a modern lounge or waiting area with wooden furniture and hanging lights. To the right of the image, there's a section titled 'Who we are' with a paragraph of text about the company. At the bottom right, there's a note about activating Windows.

Who we are

India's favourite wedding planning website & app with monthly dedicated users. Realwed is a swanky alternative to the outdated wedding planning process. A one-stop-shop for all things weddings, you can find inspiration, ideas and vendors within your budget. WedMeGood has been trusted by over thousands of brides & grooms all over the world to plan their big day. So sit back, log on to Realwed, and plan the wedding of your dreams!

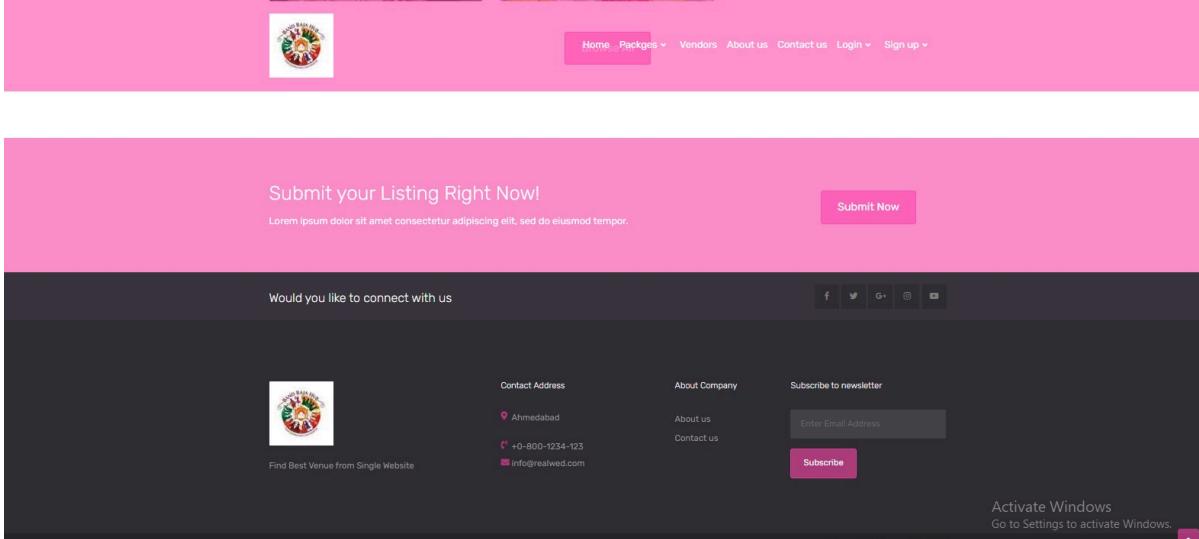
Activate Windows
Go to Settings to activate Windows.

Contact US Page



The screenshot shows a contact us page with a pink header featuring a logo and navigation links: Home, Packages, Vendors, About us, Contact us, Login, and Sign up. Below the header is a decorative banner with four panels of flowers and greenery. The main content area contains a large image of a modern office or lounge space with wooden floors, exposed pipes, and people sitting on large brown couches. To the right, there is a section titled "Who we are" with a paragraph of text about the company, followed by a "Activate Windows" message.

Submit Page



The screenshot shows a submit page with a pink header and a dark footer. The header includes a logo and navigation links. The main content area has a pink background with the text "Submit your Listing Right Now!" and a "Submit Now" button. The footer is dark with white text and links for social media (Facebook, Twitter, Google+, Email, YouTube) and a newsletter sign-up form. It also includes a "Find Best Venue from Single Website" link and a "Activate Windows" message.

5. Acceptance Criteria

1. Login/Signup

- User must be able to create a new account with valid details.
- Registered users must be able to log in successfully.

2. About Us

- Page must display project purpose and contact details.

3. Vendors

- User must be able to view vendor list and details.
- Vendor booking should be stored in the system.

4. Packages

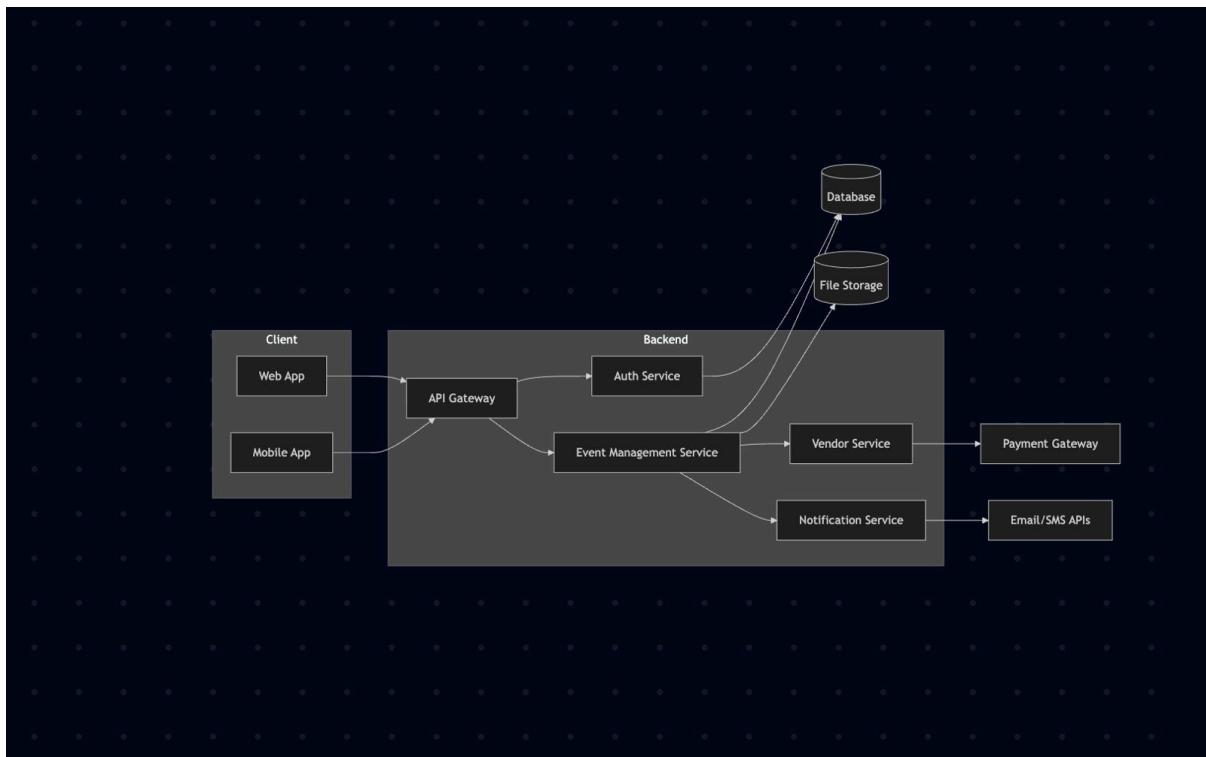
- Packages must display correct pricing and included services.
- User must be able to select or enquire about a package.

5. Location

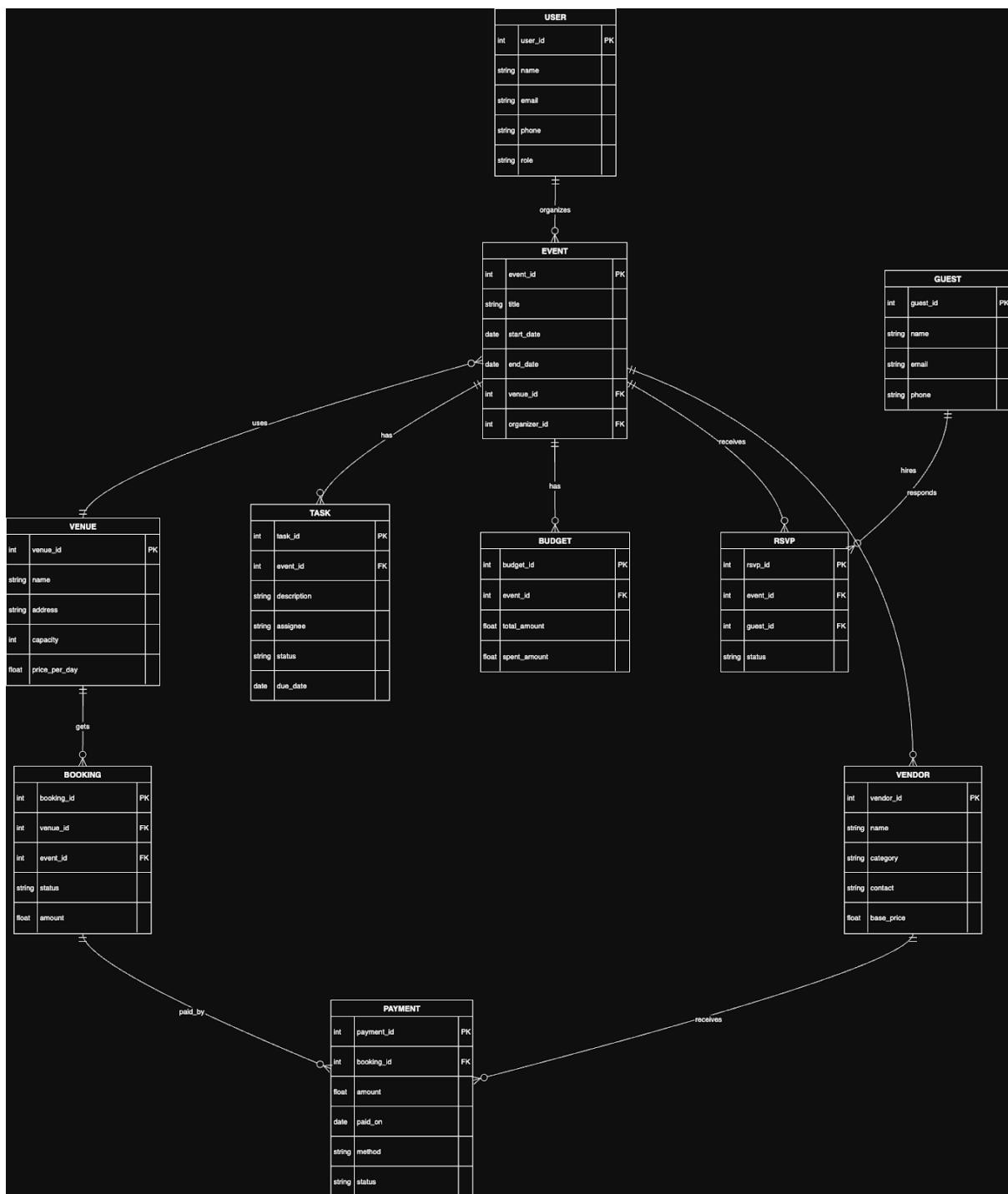
- Locations must show address and capacity.
- User must be able to book a location.

SYSTEM DESIGN DOCUMENT

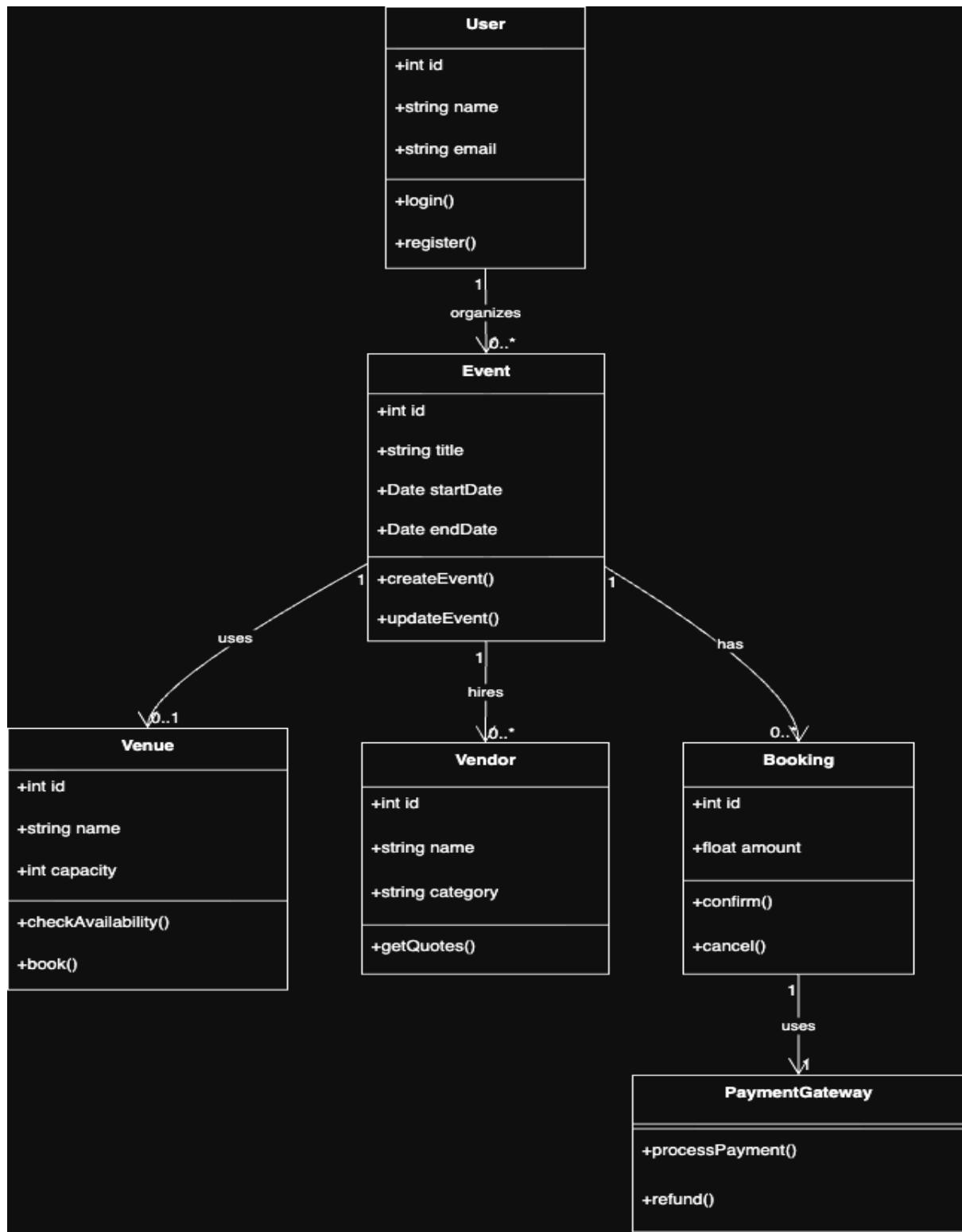
1) Architecture Diagram:



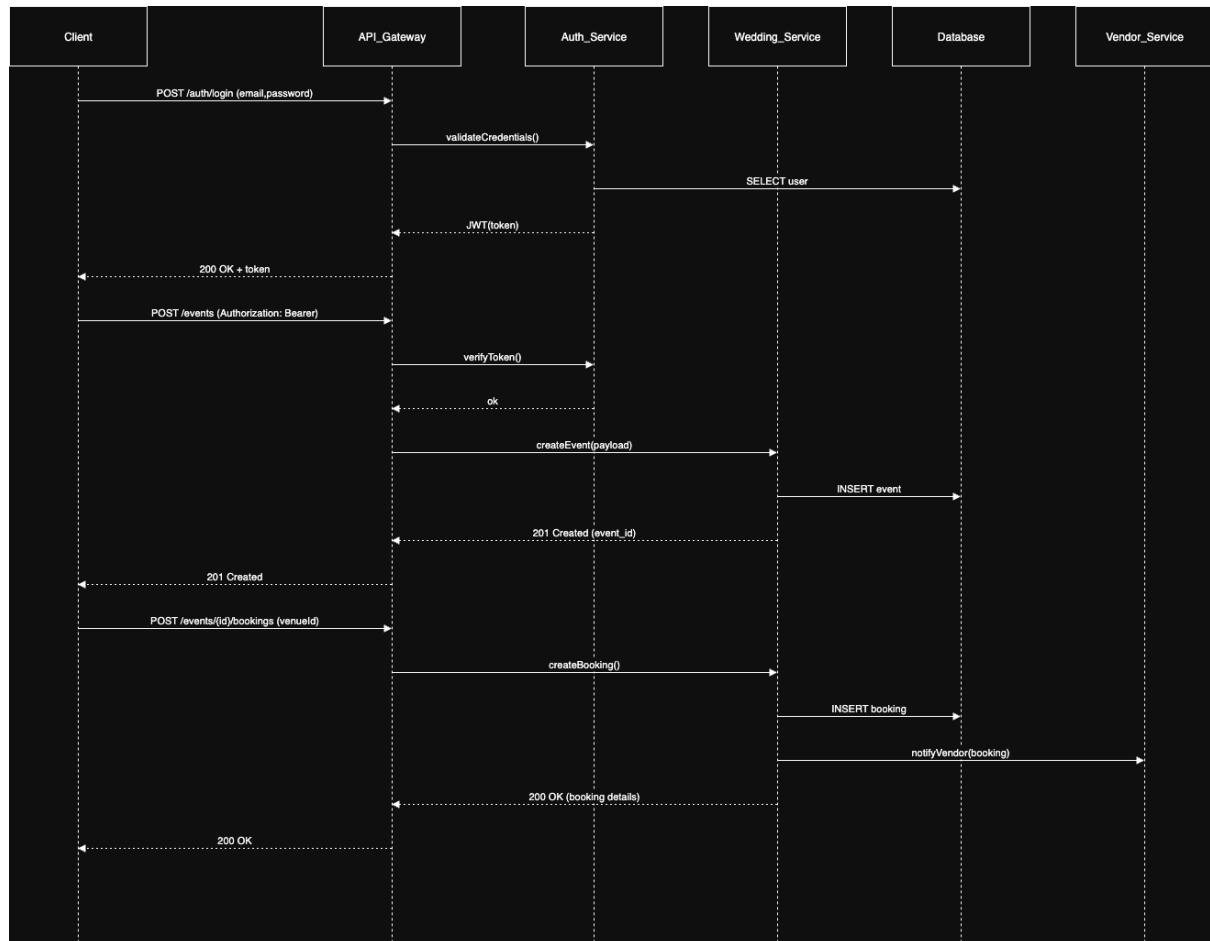
2)DATABASE SCHEMA(ER DIAGRAM):



3)class diagram:



3)sequence diagram:



Rest api contract:

```
openapi: 3.0.3
info:
  title: Band Baaja Hub API
  description: REST API for Event Planning & Management System
  version: 1.0.0
servers:
  - url: https://api.bandbaajahub.com/v1

paths:
  /auth/register:
    post:
      summary: Register a new user
      requestBody:
        required: true
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/UserRegister'
      responses:
        '201':
          description: User created
          content:
            application/json:
              schema:
                $ref: '#/components/schemas/User'

  /auth/login:
    post:
      summary: Login user and get JWT token
      requestBody:
        required: true
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/UserLogin'
      responses:
        '200':
          description: Login successful
          content:
            application/json:
              schema:
                type: object
                properties:
                  token:
```

```
        type: string

/events:
  get:
    summary: Get all events
    security:
      - bearerAuth: []
  responses:
    '200':
      description: List of events
      content:
        application/json:
          schema:
            type: array
            items:
              $ref: '#/components/schemas/Event'

  post:
    summary: Create a new event
    security:
      - bearerAuth: []
    requestBody:
      required: true
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/EventCreate'
    responses:
      '201':
        description: Event created
        content:
          application/json:
            schema:
              $ref: '#/components/schemas/Event'

/events/{eventId}:
  get:
    summary: Get event details
    parameters:
      - in: path
        name: eventId
        required: true
        schema:
          type: integer
  responses:
```

```
'200':
  description: Event details
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/Event'

  put:
    summary: Update an event
    parameters:
      - in: path
        name: eventId
        required: true
        schema:
          type: integer
    requestBody:
      required: true
      content:
        application/json:
          schema:
            $ref: '#/components/schemas/EventUpdate'
    responses:
      '200':
        description: Event updated

  delete:
    summary: Delete an event
    parameters:
      - in: path
        name: eventId
        required: true
        schema:
          type: integer
    responses:
      '204':
        description: Event deleted

/events/{eventId}/bookings:
  post:
    summary: Book a venue for an event
    parameters:
      - in: path
        name: eventId
        required: true
        schema:
```

```
        type: integer
requestBody:
  required: true
  content:
    application/json:
      schema:
        $ref: '#/components/schemas/BookingCreate'
responses:
  '201':
    description: Booking confirmed
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Booking'

/payments:
post:
  summary: Make a payment for booking
  requestBody:
    required: true
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/PaymentRequest'
responses:
  '200':
    description: Payment processed
    content:
      application/json:
        schema:
          $ref: '#/components/schemas/Payment'

components:
  securitySchemes:
    bearerAuth:
      type: http
      scheme: bearer
      bearerFormat: JWT

  schemas:
    User:
      type: object
      properties:
        id:
          type: integer
```

```
name:  
  type: string  
email:  
  type: string  
phone:  
  type: string  
role:  
  type: string  
  
UserRegister:  
  type: object  
  required: [name, email, password]  
  properties:  
    name:  
      type: string  
    email:  
      type: string  
    password:  
      type: string  
    phone:  
      type: string  
  
UserLogin:  
  type: object  
  required: [email, password]  
  properties:  
    email:  
      type: string  
    password:  
      type: string  
  
Event:  
  type: object  
  properties:  
    id:  
      type: integer  
    title:  
      type: string  
    startDate:  
      type: string  
      format: date  
    endDate:  
      type: string  
      format: date  
    venueId:
```

```
    type: integer
organizerId:
    type: integer

EventCreate:
    type: object
    required: [title, startDate, endDate, venueId]
properties:
    title:
        type: string
    startDate:
        type: string
        format: date
    endDate:
        type: string
        format: date
    venueId:
        type: integer

EventUpdate:
    type: object
properties:
    title:
        type: string
    startDate:
        type: string
        format: date
    endDate:
        type: string
        format: date
    venueId:
        type: integer

Booking:
    type: object
properties:
    id:
        type: integer
    eventId:
        type: integer
    venueId:
        type: integer
    status:
        type: string
    amount:
```

```
    type: number
    format: float

BookingCreate:
  type: object
  required: [venueId, amount]
  properties:
    venueId:
      type: integer
    amount:
      type: number
      format: float

Payment:
  type: object
  properties:
    id:
      type: integer
    bookingId:
      type: integer
    amount:
      type: number
    method:
      type: string
    status:
      type: string
    paidOn:
      type: string
      format: date-time

PaymentRequest:
  type: object
  required: [bookingId, amount, method]
  properties:
    bookingId:
      type: integer
    amount:
      type: number
    method:
      type: string
```

Band Baaja Hub API 1.0.0 OAS 3.0

REST API for Event Planning & Management System

Servers

default

<small>POST</small>	/auth/register	Register a new user	<input type="button" value="▼"/>
<small>POST</small>	/auth/login	Login user and get JWT token	<input type="button" value="▼"/>
<small>GET</small>	/events	Get all events	<input type="button" value="🔒 ▼"/>
<small>POST</small>	/events	Create a new event	<input type="button" value="🔒 ▼"/>
<small>GET</small>	/events/{eventId}	Get event details	<input type="button" value="▼"/>
<small>PUT</small>	/events/{eventId}	Update an event	<input type="button" value="▼"/>

Schemas

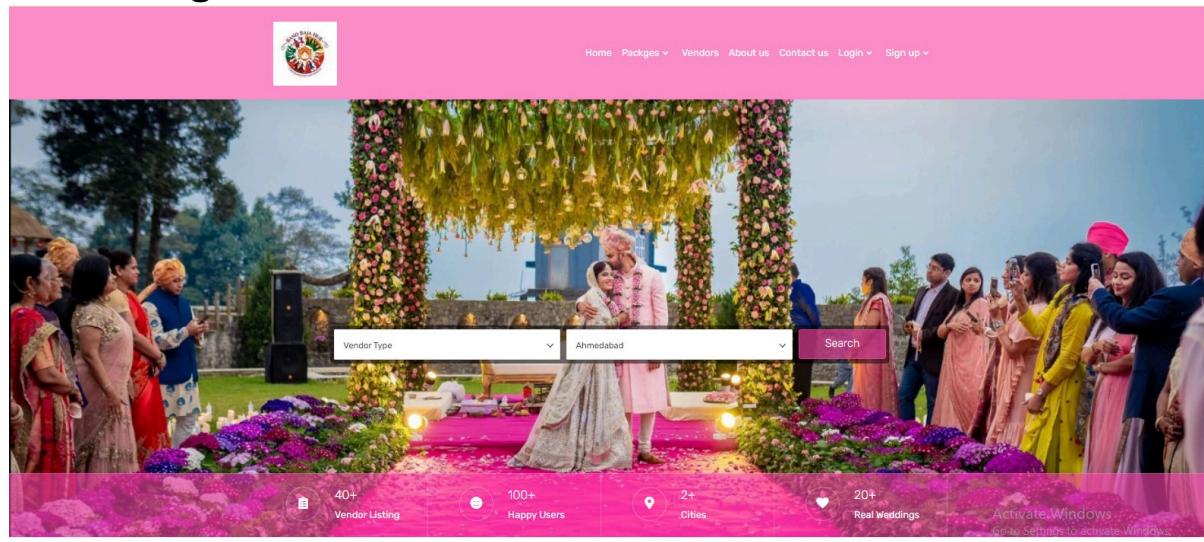
User >	<input type="button" value="↔"/>
UserRegister > {	
name*	> [...]
email*	> [...]
password*	> [...]
phone	> [...]
}	
UserLogin >	<input type="button" value="↔"/>
Event >	<input type="button" value="↔"/>
EventCreate >	<input type="button" value="↔"/>
EventUpdate >	<input type="button" value="↔"/>

Schemas

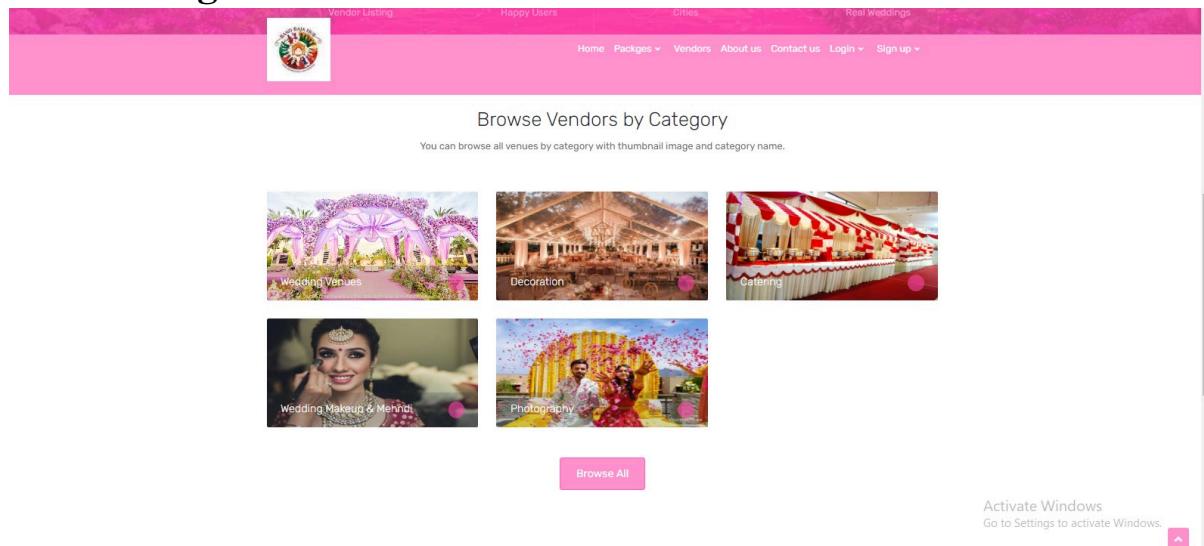
User >	<input type="button" value="↔"/>
UserRegister >	<input type="button" value="↔"/>
UserLogin >	<input type="button" value="↔"/>
Event >	<input type="button" value="↔"/>
EventCreate >	<input type="button" value="↔"/>
EventUpdate >	<input type="button" value="↔"/>
Booking >	<input type="button" value="↔"/>
BookingCreate >	<input type="button" value="↔"/>

4. UI/UX frames:

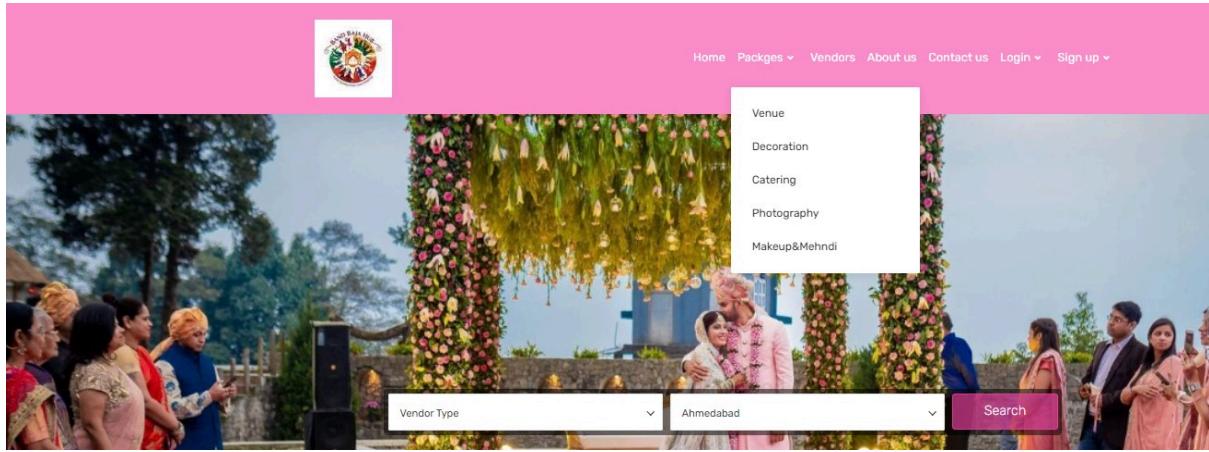
Home Page



Vendor Page

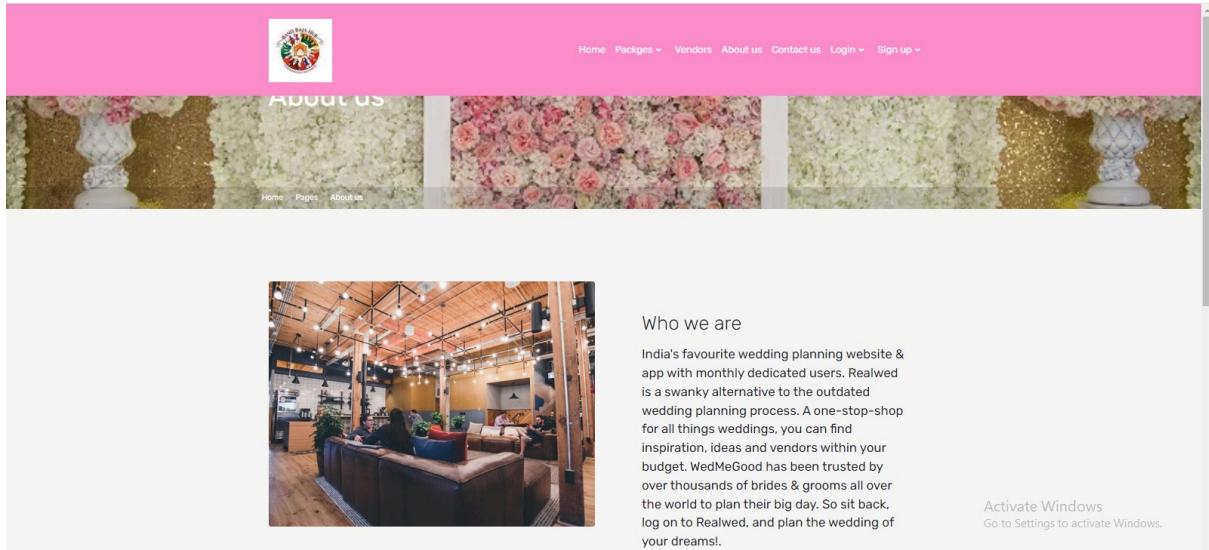


Package Page



The screenshot shows a website for wedding planning. At the top, there's a pink header bar with a logo and navigation links: Home, Packages, Vendors, About us, Contact us, Login, and Sign up. Below the header is a large image of a wedding couple under a floral canopy. A search bar at the bottom of the page includes dropdowns for 'Vendor Type' and 'Location' set to 'Ahmedabad', and a 'Search' button. To the right of the search bar is a vertical menu with categories: Venue, Decoration, Catering, Photography, and Makeup&Mehndi.

About Us Page



The screenshot shows the 'About us' page of the website. It features a decorative banner with floral arrangements and a central title 'ABOUT US'. Below the banner is a navigation bar with links: Home, Pages, About us. The main content area contains a photograph of a modern lounge with wooden furniture and industrial-style lighting. To the right of the image, there's a section titled 'Who we are' with a paragraph of text about the company. At the bottom right, there's a note about activating Windows.

Who we are

India's favourite wedding planning website & app with monthly dedicated users. Realwed is a swanky alternative to the outdated wedding planning process. A one-stop-shop for all things weddings, you can find inspiration, ideas and vendors within your budget. WedMeGood has been trusted by over thousands of brides & grooms all over the world to plan their big day. So sit back, log on to Realwed, and plan the wedding of your dreams!

Activate Windows
Go to Settings to activate Windows.

Decoration:

Home Listing Listing venue with sidebar

Premium Floral Decor Traditional Theme Based Decor Dream Plan Package

Activate Windows Go to Settings to activate Window

package details:

Package Details

Home > Package > About Package

About Light Decor Package Package	
From a lighting design standpoint, uplighting is the first brush stroke in event design," says event designer Brian Toner. "Done properly, it gives a sense of depth and background to your photos and videography.	
Light Decor Package Highlights	
Price	130000
Category	Decoration
Vendor	VR Light Decoration Go to Setting

Catering:

The page displays three catering packages with corresponding images and details:

Package	Image	Price	Rating
Premium		Rs.120000 Start From	★★★★★ (20)
All in one		Rs.70000 Start From	★★★★★ (20)
The Urban Package		Rs.85000 Start From	★★★★★ (20)

Activate Windows
Go to Settings to activate Windows

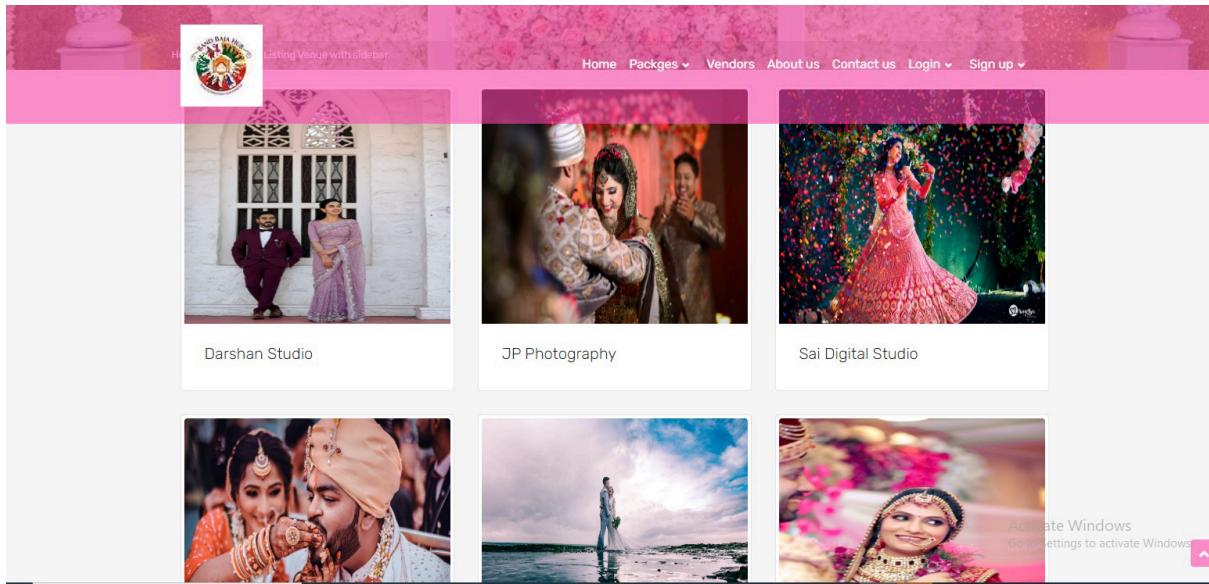
photography:

The page displays three photography packages with corresponding images and details:

Package	Image	Price	Rating
The Traditional Package		Rs.50000 Start From	★★★★★ (20)
Platinum Package		Rs.45000 Start From	★★★★★ (20)
Videography Package		Rs.50000 Start From	★★★★★ (20)

Activate Windows
Go to Settings to activate Windows

Vendor list:



Couple register page:

Couple Register

Browse 50+ vendors profile and reviews.

We don't post anything without your permission.

Enter Your Name

Enter Your Email

Enter your Password

dd/mm/yyyy

Gender Female Male

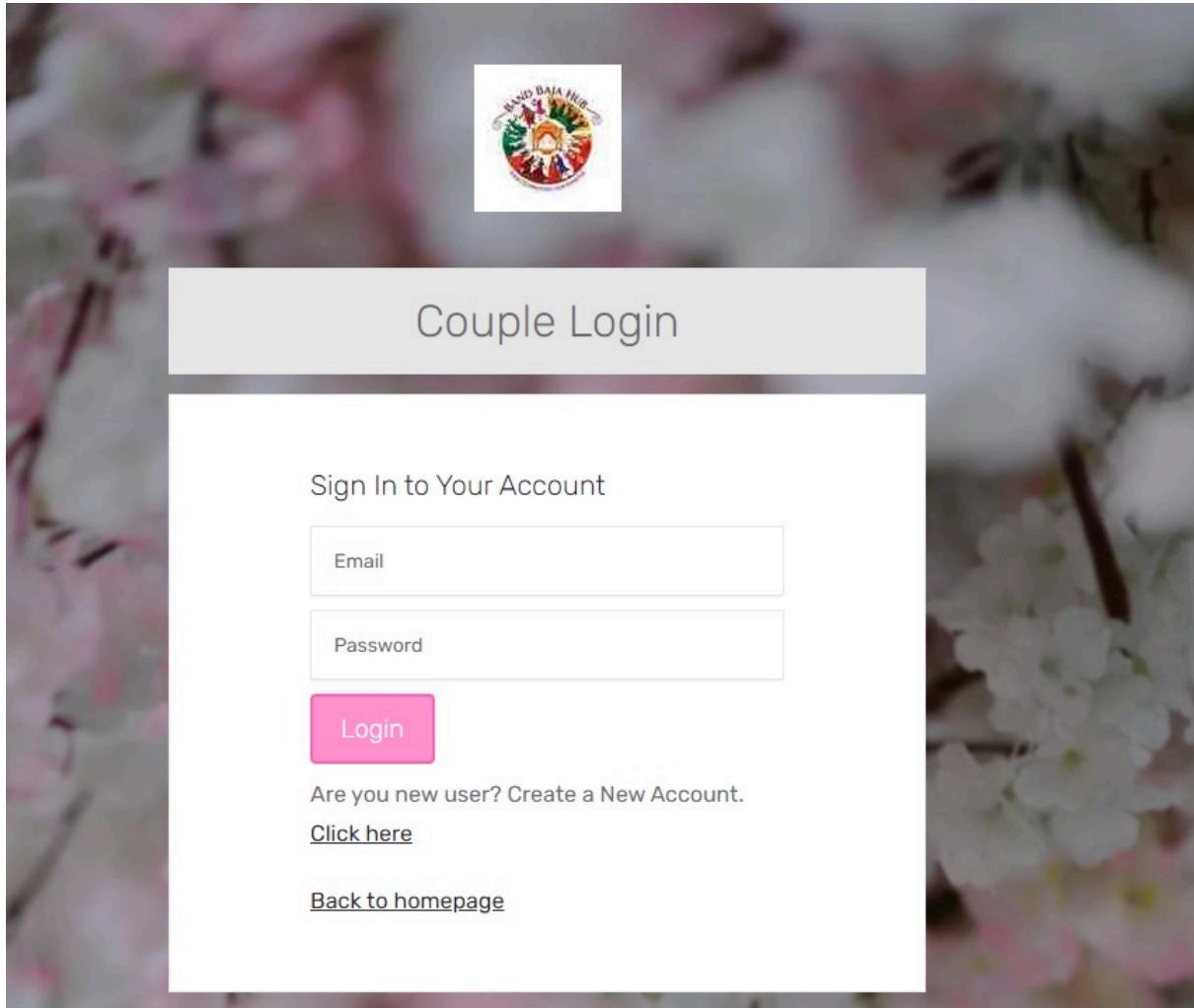
Enter Your Address

Sign Up

Have you subscribed? [Login](#)

[Back to homepage](#)

Couple login page:



The background of the login page features a soft-focus photograph of delicate pink and white flowers, possibly cherry blossoms, creating a romantic and elegant atmosphere.

Couple Login

Sign In to Your Account

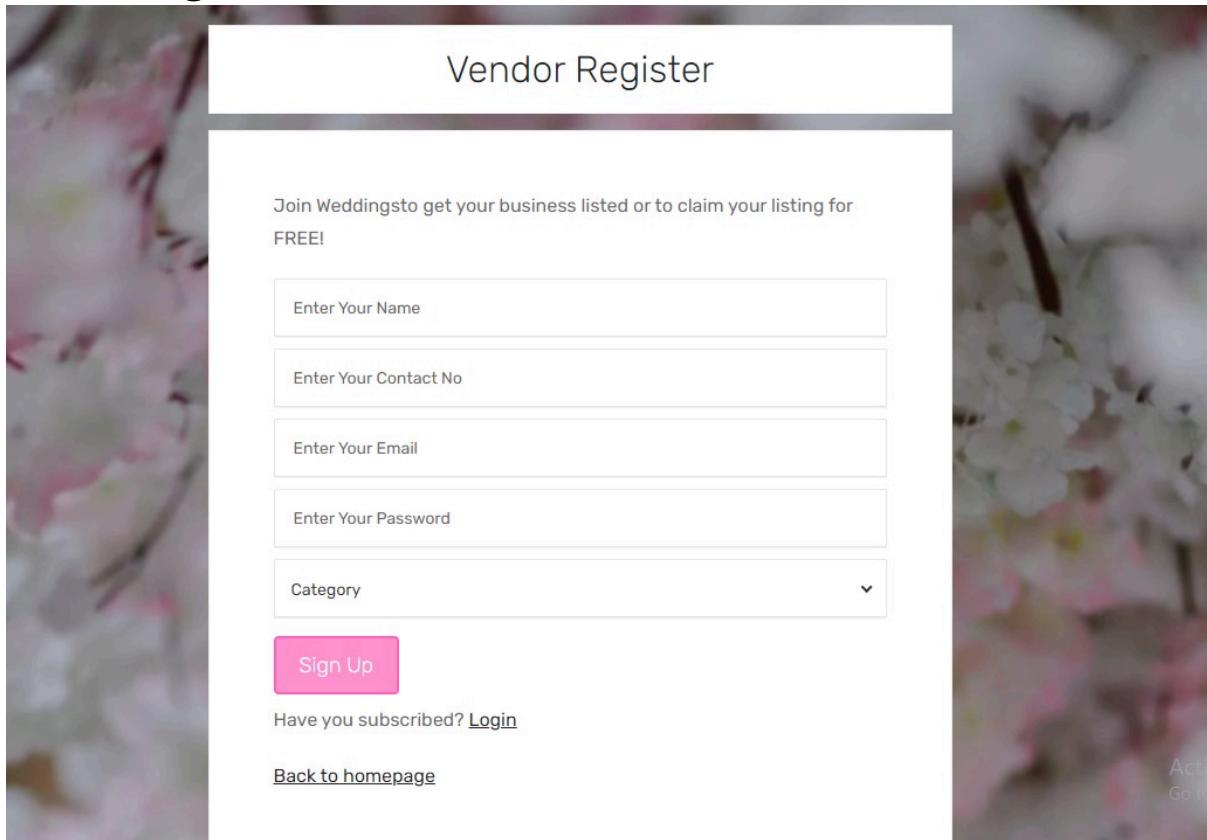
Login

Are you new user? Create a New Account.
[Click here](#)

[Back to homepage](#)

A small circular logo is positioned at the top center of the page, featuring a colorful design with the text "BANDU BAIK NING" around the perimeter and a central emblem.

Vendor register:



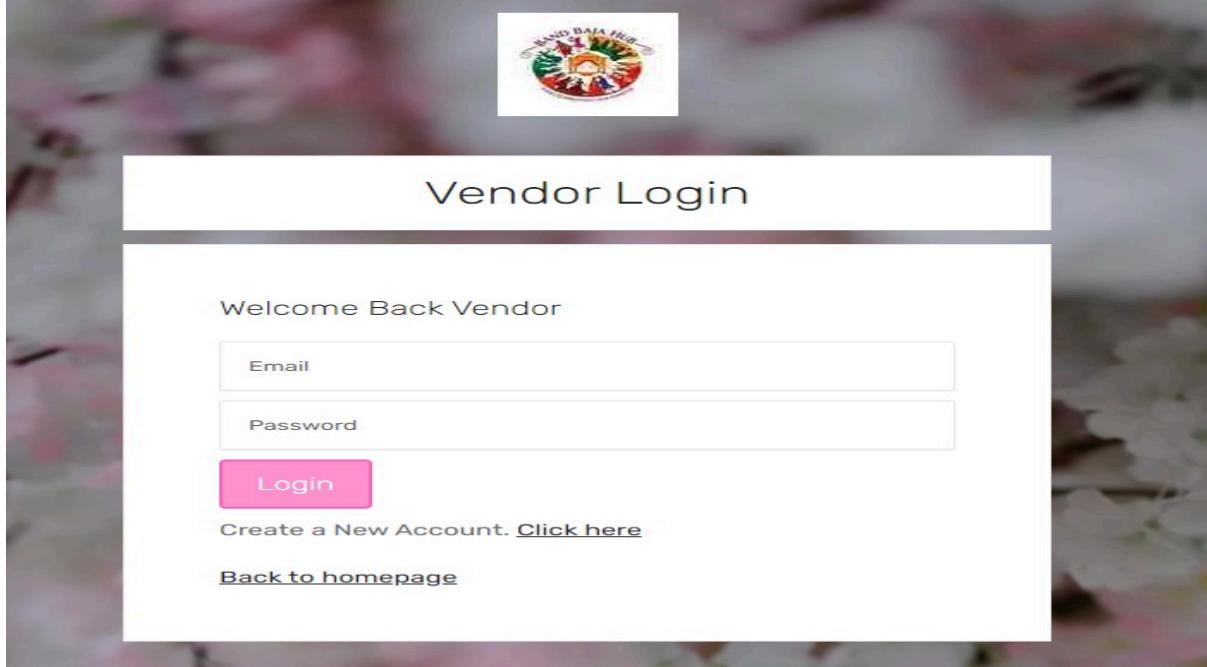
Vendor Register

Join Weddingsto get your business listed or to claim your listing for FREE!

Have you subscribed? [Login](#)

[Back to homepage](#)

Vendor login:



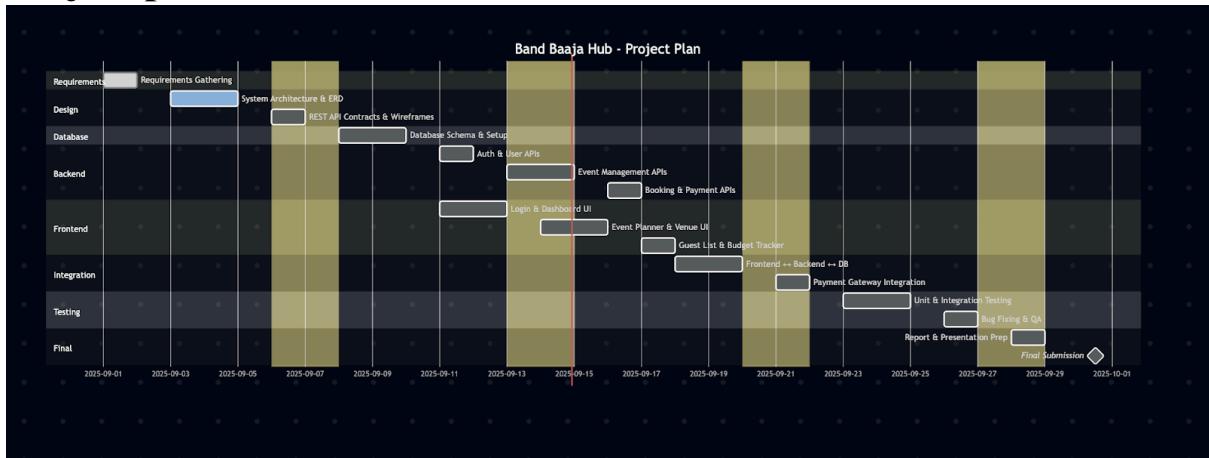
Vendor Login

Welcome Back Vendor

Create a New Account. [Click here](#)

[Back to homepage](#)

Project plan/ Gantt chart:



Project Plan

Project Plan On Jira:

Task : Build Responsive Homepage

The screenshot shows a Jira work item titled "Build responsive homepage". The main panel displays fields like "Description" (Add a description...), "Child work items" (Add child work item), and "Linked work items" (Add linked work item). A "Confluence content" section contains a link to "[Example] Responsive Homepage Design and Development Plan". The right-hand sidebar shows the "Details" tab with the following information:

Field	Value
Assignee	202412039 Assign to me
Labels	None
Parent	None
Due date	Sep 02, 2025
Team	None
Start date	Sep 01, 2025
Development	Create branch Create commit
Reporter	Hirwa

Task:Vendor Management

The screenshot shows a Jira work item titled "Vendor Management". The main panel displays fields like "Description" (Add a description...), "Child work items" (Add child work item), and "Linked work items" (Add linked work item). A "Confluence content" section contains a link to "Project plan". The right-hand sidebar shows the "Details" tab with the following information:

Field	Value
Assignee	Unassigned Assign to me
Labels	None
Parent	None
Due date	Sep 21, 2025
Team	None
Start date	Sep 01, 2025
Development	Create branch Create commit
Reporter	Manya Singh

Task: Guest and Task Management

The screenshot shows a Jira work item interface. The title bar says "BBH-16". The main area is titled "Guest and Task Management". It includes sections for "Description" (with placeholder "Add a description..."), "Child work items" (with placeholder "Add child work item"), "Linked work items" (with placeholder "Add linked work item"), and "Confluence content" (with a "Project plan" section and a "TRY TEMPLATE" button). Below these is a comment input field with placeholder "Add a comment..." and buttons for "Who is working on this...?", "Can I get more info...?", and "Status update...". On the right, a "Details" panel is open, showing fields: Assignee (Unassigned, with "Assign to me" link), Labels (None), Parent (None), Due date (Sep 30, 2025), Team (None), Start date (Sep 14, 2025), Development (dropdown with "Create branch" and "Create commit" options), and Reporter (Manya Singh). Top right icons include padlock, eye, copy, more, and close.

Task: Venue and Package Booking

The screenshot shows a Jira work item interface. The title bar says "BBH-14". The main area is titled "Venue and Package Booking". It includes sections for "Description" (with placeholder "Add a description..."), "Child work items" (with placeholder "Add child work item"), "Linked work items" (with placeholder "Add linked work item"), and "Confluence content" (with a "Project plan" section and a "TRY TEMPLATE" button). Below these is a comment input field with placeholder "Add a comment..." and buttons for "Who is working on this...?", "Can I get more info...?", and "Status update...". On the right, a "Details" panel is open, showing fields: Assignee (Unassigned, with "Assign to me" link), Labels (None), Parent (None), Due date (Sep 21, 2025), Team (None), Start date (Sep 14, 2025), Reporter (Manya Singh), and Automation (dropdown with "Rule executions" option). Top right icons include padlock, eye, copy, more, and close.

Task: Cross Browser Testing

The screenshot shows a work item titled "Cross-browser testing". The left sidebar contains sections for "Description" (with placeholder "Add a description..."), "Child work items" (with placeholder "Add child work item"), and "Linked work items" (with placeholder "Add linked work item"). Below these is a "Confluence content" section with a "Project plan" template. The right panel is titled "Details" and includes fields for "Assignee" (Hirwa), "Labels" (None), "Parent" (None), "Due date" (Sep 20, 2025), "Team" (None), "Start date" (Sep 15, 2025), "Development" (with "Create branch" and "Create commit" options), and "Reporter" (Hirwa). At the bottom of the right panel is a "Configure Window" button.

Task: Fix Bugs From Feedback

The screenshot shows a work item titled "Fix bugs from feedback". The left sidebar contains sections for "Description" (with placeholder "Add a description..."), "Child work items" (with placeholder "Add child work item"), and "Linked work items" (with placeholder "Add linked work item"). Below these is an "Activity" section with tabs for "All", "Comments" (selected), "History", and "Work log". The right panel is titled "Details" and includes fields for "Assignee" (Hirwa), "Labels" (None), "Parent" (None), "Due date" (Sep 26, 2025), "Team" (None), "Start date" (Sep 20, 2025), and "Reporter" (Hirwa). Below the "Details" panel is an "Automation" section with a "Rule executions" option. At the bottom of the right panel is a "Configure Window" button.

Task: Deploy System on XAMPP server

The screenshot shows a Jira work item interface. The title is "Deploy system on XAMPP server". The "Details" panel on the right contains the following information:

Field	Value
Assignee	Hirwa
Labels	None
Parent	None
Due date	Sep 28, 2025
Team	None
Start date	Oct 01, 2025
Development	Create branch Create commit
Reporter	Hirwa

The "Confluence content" section includes a "Project plan" link and a "TRY TEMPLATE" button. The "Comments" section at the bottom has input fields for "Add a comment...", "Can I get more info...?", "Status update...", and "Thanks...".

Task: Prepare Project report & README

The screenshot shows a Jira work item interface. The title is "Prepare project report & README". The "Details" panel on the right contains the following information:

Field	Value
Assignee	202412105 Assign to me
Labels	None
Parent	None
Due date	Oct 2, 2025
Team	None
Start date	Oct 01, 2025
Development	Create branch Create commit
Reporter	Hirwa

The "Confluence content" section includes a "Project plan" link and a "TRY TEMPLATE" button. The "Comments" section at the bottom has input fields for "Add a comment...", "Can I get more info...?", "Status update...", and "Thanks...".

Task Create PPT Slides

The screenshot shows a work item details page for a task titled "Create presentation slides".

Task Details:

- Assignee:** 202412105 (with a "Assign to me" link)
- Labels:** None
- Parent:** None
- Due date:** Oct 4, 2025
- Team:** None
- Start date:** Oct 03, 2025
- Development:** Hirwa (Reporter)

Confluence Content: A panel titled "Project plan" is visible, with a "TRY TEMPLATE" button.

Comments: A comment input field says "Add a comment...". Below it are three buttons: "Can I get more info...?", "Status update...", and "Thanks...".

Weekly Progress Reports

Week	Summary of Tasks	Roadblocks	Upcoming Tasks
Week 1 (7–13 Sep)	Project setup on Jira; finalization of functional and non-functional requirements; team role allocation.	Difficulty syncing all requirement updates on time.	Begin interface design and create initial wireframes.
Week 2 (14–20 Sep)	Designed wireframes for Home, Vendors, Packages, and About Us pages; finalized UI/UX layout.	Delay in review and approval of wireframes.	Start system design documentation (architecture & ER diagram).
Week 3 (21–27 Sep)	Developed architecture diagram and ER schema; linked relationships for vendors, users, and events.	Minor errors in foreign key mapping.	Prepare class and sequence diagrams.
Week 4 (28 Sep–4 Oct)	Created class and sequence diagrams; aligned them with use cases.	Conflicts between class and sequence design flow.	Draft REST API contract structure.
Week 5 (5–11 Oct)	Wrote REST API contract using OpenAPI 3.0; defined endpoints for authentication, events, booking, and payments.	Inconsistent schema references during validation.	Start backend setup for authentication and vendor management.
Week 6 (12–18 Oct)	Implemented user authentication and vendor management modules; basic backend testing.	JWT token validation issues.	Develop package and location modules.
Week 7 (19–25 Oct)	Added package and location modules; integrated with vendor and booking APIs.	Data not syncing properly between modules.	Begin event creation and booking logic.
Week 8 (26 Oct–1 Nov)	Integrated event creation, booking, and payment flow; linked with REST APIs.	Delay in payment gateway sandbox testing.	Conduct integration and cross-browser testing.

Week 9 (2–8 Nov)	Performed cross-browser and responsiveness testing; resolved UI inconsistencies.	CSS and layout issues on mobile screens.	Prepare deployment setup and documentation.
Week 10 (9–17 Nov)	Deployed system on XAMPP; finalized README, report, and presentation slides; submitted deliverables.	Minor server configuration issues during deployment.	Conduct final presentation and evaluation.