

# Project Plan

## 1. Project Overview:

Project Name: girlyPops Bnb

Team Name: girlyPops

Hackathon Theme: Blockchain

Project Description: A web application that facilitates booking, payment, check-in, and check-out processes for an Airbnb-like platform using Ethereum blockchain. The application will have frontend components developed using HTML, CSS, and JavaScript. The backend will be implemented by Josephine and Jordana, while Fajar and Blossom will work on the frontend.

## 2. Project Goals:

The main objectives of the project are:

- Develop a fully functional web application that enables users to book accommodations, make payments, and manage check-in and check-out processes using blockchain technology.
- Implement a smart contract for booking and payment transactions utilizing Ethereum.
- Create a user-friendly interface for seamless interaction with the application.
- Support accommodation listings, although it is not mandatory for users.

## 3. Project Deliverables:

The project will deliver the following:

- A fully functional web application with features like user registration, authentication, accommodation listing and search, booking and payment processing using Ethereum, and check-in and check-out management.
- A smart contract script for booking and payment transactions on the Ethereum blockchain.
- A source code repository with proper version control.
- Documentation including project requirements, design, and a user guide.

## 4. Project Timeline:

The project will be completed within a 6-hour timeframe, allocated as follows:

Hour 1:

- Set up the development environment.
- Define project requirements and user stories.
- Design the application's frontend components.

Hour 2:

- Implement frontend components using HTML, CSS, and JavaScript.
- Integrate the frontend with backend APIs.

Hour 3:

- Design and develop the Ethereum smart contract for booking and payment.
- Implement backend functionality for check-in and check-out processes.

Hour 4:

- Finalize the frontend and backend integration.
- Perform thorough testing and bug fixing.

Hour 5:

- Prepare documentation including project requirements, design, and a user guide.
- Refine the project presentation.

Hour 6:

- Conduct a final test of the application.
- Make any necessary adjustments or refinements based on testing results.
- Submit the project for the hackathon.

5. Resource Allocation:

- Fajar: Frontend development (HTML, CSS, JavaScript).
- Blossom: Frontend development (HTML, CSS, JavaScript).
- Josephine: Backend development (APIs, database).
- Jordana: Backend development (APIs, database).
- All team members: Collaborate on design, testing, and documentation.

6. Risks and Mitigation:

- Lack of experience with Ethereum and blockchain: The team will conduct research, seek external resources, and consult experts to gain necessary knowledge.
- Technical challenges during implementation: Regular team meetings, code reviews, and collaborative problem-solving will be employed to address issues promptly.
- Time constraints: The team will prioritize tasks, allocate resources effectively, and monitor progress regularly to ensure timely completion.