

## Getting Started

Set up and run the project locally by following each step carefully.

### Clone the Repository

- **Repository URL:** `git@github.com:amosproj/amos2024ws04-personalized-play.git`
- **Commands:**

```
git clone git@github.com:amosproj/amos2024ws04-personalized-play.git  
  
cd amos2024ws04-personalized-play
```

### Set Up Environment Variables

Copy example environment files to configure your environment.

- **Commands:**

```
cp .env.example .env
```

- Repeat this command in directories like `flows`, `functions`, and `app` if they have their own `.env.example` files.
- Customize each `.env` file as necessary for your local setup.

### Install Dependencies

Navigate to each directory ( `flows`, `functions`, and `app` ) and install dependencies.

- **Command:**

```
npm install
```

### Install the Expo Developer Build

To test the mobile interface, download the Expo Developer build from [Expo.dev](https://expo.dev).

### Run the Project Locally

Each component has specific commands to start in development mode. Follow these steps:

#### Start the Flows

- **Command** (from the `flows` directory):

```
npm run dev
```

This initiates real-time compilation for Firebase Genkit flows, ideal during active development.

- **Production Option:**

```
npm run build
```

Use this command to build flows without real-time updates if you're not actively developing.

### Start the Functions

- **Command** (from the `functions` directory):

```
npm run dev
```

Runs Firebase functions in development mode, applying code changes immediately.

- **Production Option:**

```
npm run build
```

Use this command to build functions for a stable production environment.

### Start Firebase Emulators

To emulate Firebase services locally, initiate the emulators.

- **Command** (from the root directory):

```
GENKIT_ENV=dev firebase emulators:start --inspect-functions
```

This command launches Firebase emulators, allowing you to test backend services locally without cloud deployment.

### Start the Genkit Developer UI

From the `flows` directory, launch the Genkit Developer UI.

- **Command:**

```
npm run genkit:start
```

This provides a visual interface for managing and testing flows, ideal for quickly validating your configurations.

### Start the Expo Dev Server

To view the project on a mobile device, start the Expo server from the `app` directory.

- **Command:**

```
npm run dev
```

This will start the Expo development server, enabling real-time updates on a connected device (e.g., Android emulator or physical device).