Build Documentation

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.

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).