### Proposal for HelloDev Application

#### ****Introduction****

HelloDev is an innovative platform designed to connect users with skilled programmers, offering an on-demand service similar to the well-known telemedicine app, Halodoc. However, instead of healthcare professionals, HelloDev connects users with programmers for a variety of programming tasks and consultations. This proposal outlines the application’s structure, features, and functionality, providing a comprehensive overview of how HelloDev will operate.

#### ****Objective****

The primary goal of HelloDev is to create a seamless and efficient interface for users to find, consult, and hire programmers based on their specific needs. The application will facilitate easy interaction between users and programmers, ensuring that users can access programming expertise promptly and efficiently.

#### ****Features Overview****

**User Management**

* 1. **Registration and Profile Management:** Users can register, create, and manage their profiles.
  2. **Balance Tracking:** Users can maintain a balance for transactions within the app.

**Programmer Availability**

* 1. **Availability and Pricing:** Programmers can set their availability and pricing for sessions.
  2. **Skills Management:** Programmers can list their skills, which will be matched with user requirements.

**Sessions Management**

* 1. **Session Booking:** Users can book sessions with programmers based on their skills and availability.
  2. **Session Details:** Each session will have a name, description, associated user, programmer, and topic.

**Transactions**

* 1. **Payment Processing:** Users can make payments for booked sessions, and transactions will be recorded.
  2. **Transaction History:** Users can view their transaction history for reference.

**Skills and Topics**

* 1. **Skills Database:** A comprehensive list of programming skills to categorize and match programmers.
  2. **Topics for Sessions:** Topics under which sessions can be booked, making it easier for users to find the right expertise.

#### ****Database Structure****

The database is designed to handle all aspects of the HelloDev application efficiently. Below is an overview of the database structure based on the provided Entity-Relationship Diagram (ERD).

**Users Table**

Stores user information including first name, last name, username, email, password, balance, profile picture, and the creation date.

**Programmers Table**

Contains programmer-specific information, linking to the user ID, and details about their availability and price.

**Programmers\_Skills Table**

A junction table linking programmers to their skills, allowing the application to match user needs with the right programmer expertise.

**Skills Table**

Lists all possible skills that programmers can have.

**Sessions Table**

Manages session details including session name, description, associated user, programmer, and topic.

**Transactions Table**

Records all transactions related to session bookings, including the creation date, session ID, and payment amount.

**Topics Table**

Lists all possible topics for sessions, helping users to categorize their needs more effectively.

#### ****Workflow****

**User Registration and Profile Setup:**

Users sign up and create their profile, adding balance to their account if needed.

**Programmer Listing:**

Programmers register, set their availability, pricing, and list their skills.

**Booking a Session:**

Users search for programmers based on their skills and book a session for their required topic.

**Payment and Transaction:**

Users pay for the session, and the transaction is recorded in the system.

**Session Execution:**

The session is conducted, and users can provide feedback and rate the programmer.

#### ****Conclusion****

HelloDev aims to revolutionize the way users access programming expertise, offering a streamlined and user-friendly platform for both users and programmers. By leveraging a robust database structure and intuitive user interface, HelloDev ensures efficient, reliable, and high-quality interactions between users and programmers.

With HelloDev, accessing top-notch programming expertise is just a few clicks away. Welcome to the future of on-demand programming services!