**User Manual for The Tower**

**1. Introduction**

Welcome to *The Tower*, an educational mobile application designed to make IBM SkillBuilds engaging and interactive through a game show format. This user manual provides step-by-step guidance on using the app efficiently.

**2. System Requirements**

**For Mobile App:**

* **iOS:** iOS 15.0 or later (iPhone 8 or newer)
* **Android:** Android 8.0 (API level 26) or higher
* **Storage:** 150MB free space + 50MB for cache
* **Internet Connection:** Required for authentication and game content

**For Backend System (Admin Only):**

* **Minimum:** Dual-Core 2.0 GHz, 4GB RAM, 1GB storage, Windows 10/macOS 10.14/Ubuntu 20.04
* **Recommended:** Quad-Core 2.5 GHz, 8GB RAM, 5GB+ storage, Windows 11/macOS 12/Ubuntu 22.04

**3. Installation & Setup**

1. Download *Expo Go* from the App Store (iOS) or Google Play Store (Android)
2. Clone the GitHub repository:

git clone <https://github.com/COMP2281/software-engineering-group24-25-15>

1. Move into the project directory:

cd software-engineering-group24-25-15

1. Set up a virtual environment:

**Windows:**

python -m venv venv

venv\Scripts\activate

**Mac/Linux:**

python3 -m venv venv

source venv/bin/activate

1. Set up environment variables in .env files.
2. Run python setup.py to install dependencies and start the backend server.
3. Scan the QR code in the terminal using *Expo Go* to launch the app

**4. Getting Started**

**Creating an Account:**

* Open *The Tower* app
* Select *Sign Up*
* Enter email and password (email verification required)
* Login with credentials

**Navigating the App:**

* **Home Page:** Play the game or access practice mode
* **Game Menu:** Start a new game, check leaderboard, statistics, and AI chat.
* **Settings:** Adjust notifications, manage profile, and log out.
* **Friends:** Add/view friends and compare scores.

**5. Playing the Game**

* **Single-player Mode:** Compete against an AI bot and answer multiple-choice questions.
* **Practice Mode:** Answer questions without scoring or competition.
* **AI Host:** Provides hints and insights into topics.
* **Scoring System:** Earn points for correct answers and track progress.

**6. Admin Features**

* Access the admin panel via http://<YOUR\_IP>:8000/admin.
* Use Django-admin to manage user roles and question database
* Upload questions in bulk via .csv file

**7. Troubleshooting**

* **API connection issues:** Ensure server us running and IP is correct
* **Authentication Problems:** Clear app cache and verify credentials
* **Environment Configuration**
* **Database issues:** Run python manage.py migrate to sync the database
* **App Crashes:** Update Expo CLI and React Native libraries.

**8. Future Features**

* Multiplayer mode for real-time competition
* Additional difficulty levels
* Enhanced security with Two-Factor Authentication (2FA)

**9. Contact & Support**

For further assistance, visit our GitHub repository or contact our team.

Enjoy learning with The Tower!