

**CAPSTONE PROJECT REGISTER**

**Class**: **Duration time**: from ..…….../20…. To ..….…./20…..

**(\*) Profession:** <Software Engineer> **Specialty**: <ES> Hộp Văn bản <IS> Hộp Văn bản <JS> Hộp Văn bản

**(\*) Kinds of person make registers:**  Lecturer Hộp Văn bản Students

**1. Register information for supervisor (if have)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| No. | Fullname | Phone | **E-Mail** | **Title** |
| Supervisor | Vũ Thị Thùy Dương |  | [duongvtt9@fe.edu.vn](mailto:Duongvtt9@fe.edu.vn) | Ms. |
| Supervisor |  |  |  |  |

**2. Register information for students (if have)**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Full name** | **Student code** | **Phone** | **E-mail** | **Role in Group** |
|  |  |  |  |  | Leader |
|  |  |  |  |  | Member |
|  |  |  |  |  | Member |
|  |  |  |  |  | Member |

**3. Register content of Capstone Project**

**(\*) 3.1. Capstone Project name:**

* English: Exercise Buddy - App for Finding and Motivating Workout Partners
* Vietnamese: Ứng dụng kết nối và động viên người tập thể dục không chuyên
* Abbreviation: ExB

1. **Context:**

Exercise Buddy addresses the modern challenge of maintaining a healthy lifestyle amidst busy schedules. In today's fast-paced world, individuals often struggle to prioritize exercise due to time constraints, lack of motivation, and a sense of isolation. The project recognizes that while some prefer solitary workouts, many thrive on the social and emotional support of a workout partner. The context emphasizes the difficulties people face in finding a suitable exercise companion, particularly those with limited time, diverse fitness levels, or varying interests.

Problem:

Individuals who infrequently exercise and lack experience desire a workout partner but face barriers such as a lack of connections and the inability to engage with local fitness communities.

1. **Proposed Solutions**

Through ExB, users can schedule workouts at a chosen location and discover others who share similar exercise interests. The app assists users in coordinating workout sessions, offers clothing recommendations, and enables them to record and evaluate their exercise results. The emphasis is on fostering a sense of community and support for those looking to incorporate regular exercise into their lifestyles..

* **Functional requirement**
* **Web app (Admin)**
* Manage System: The admin should have the capability to oversee and manage the entire system, including user profiles, matches, and system settings.
* Get Weather Information: The admin should access real-time weather data to facilitate clothing recommendations and enhance user experience.
* Statistical Analysis: The system should generate statistical reports for user activity, matching success rates, and other relevant metrics.
* **Mobile App (User)**
* Schedule Training: Users should be able to schedule workouts, specifying time, location, and preferred activities.
* Connect with Partners: The app should match users based on compatibility, considering location, schedule, and fitness level.
* Chat: Users should have a communication platform to interact with potential workout partners.
* Get Weather Info: The app should fetch current weather conditions and provide clothing recommendations.
* Record Results: Users can record and evaluate their workout results, including calories consumed, running distance, time, and heart rate.
* Share Results: Users can share their achievements with the community, fostering a sense of encouragement and friendly competition.
* **Non-functional requirement:**
* Security (Google login)
* Supportability (Android/Web)
* Online manual support 16/24

(\*) 3.2. Main proposal content (including result and product)

* 1. **Theory and practice (document):**
* Apply software development process, UML 2.0 for system modeling. Documents include User Requirement, Software Requirement Specification, Architecture Design, Detail Design, System Implementation, Testing Document, Installation Guide, source code, deployable software packages.
* Server-side technologies:
* Server: ASP.NET Web API, Windows Azure
* Database Design: SQL Server.
* Client-side technologies:
* Web Client: HTML5, CSS3, Javascript, ReactJS.
* Mobile App: Flutter.
  1. **Products:**
* Mobile App for User
* Web API for system
* Web for Admin.

1. **Proposed Tasks:**

* Task package 1: Develop the Web application for the admin.
* Task package 2: Develop a mobile app (Android or IOS).
* Task package 3: Build – Deploy and Test the system.
* Task package 4: Prepare all required documents: system analysis and design, test plan, installation manual, user manual.

4. Other comments (propose all relative things if have).

|  |  |
| --- | --- |
| **Supervisor (If have)**  *(Sign and full name)* | HCM, date …… ………. /20 …  **On behalf of Registers**  *(Sign and full name)* |