FACULTY OF COMPUTING & INFORMATICS

CSE6224 - SOFTWARE REQUIREMENTS ENGINEERING

TERM 2420

PART 1: Campus Wellness Portal with Medical System and Fitness Center Integration

TT6L – GROUP 5 – TASK 1- SR

STUDENT NAME	STUDENT ID
Ng Jia Hong	1211101788
Danish Haziq	1221302704
Lee Ken Yu	1221303813

LECTURER'S NAME: DR ZARINA BINTI CHE EMBI

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1.0 Project Preliminary

1.1 Vision

The Campus Wellness Portal (CWP) is an integrated, independent electronic student wellness portal. By integrating campus medical appointment scheduling and fitness center software, the portal allows students to maintain their physical and mental well-being in a data-intensive, effective, and convenient manner. The system facilitates medical appointment scheduling, fitness class registration, monitoring wellness objectives, and health resource distribution.

CWP ultimately seeks to improve student achievement by encouraging healthy habits, better access to well-being services, and provision of timely, specific health information. CWP bridges the gap between exercise and medicine by offering an end-to-end system for active management of student well-being.

1.2 Scope

The scope of the Campus Wellness Portal includes:

I. User Registration and Authentication

University students are able to register and authenticate their account via ID credentials to get into the Portal and access its functionalities.

ii. Health Centre Appointment System

Has functionalities for students to manage their medical appointment bookings, cancellations, and automated reminders.

iii. Fitness Class Registration and Management

Allows students to view, register and book fitness classes as well as track their personal wellness goals in campus fitness activities.

iv. Wellness Notifications and Communications

It Integrates multiple communication channels for health tips, event alerts, and other important wellness updates which are then delivered directly to students.

v. Data Security Management

User data transmission, storage and handling are secure with the implementation of security measures

vi. Feedback Collection Mechanism

Allows students to provide feedback on wellness services and portal usability.

1.3 Goals

The goals of the Campus Wellness Portal are to be formulated as follows:

G1: The system shall provide integrated and easy-to-use wellness process management.

G1.1: Create easy-to-use navigation.

G1.2: Ensure equal accessibility.

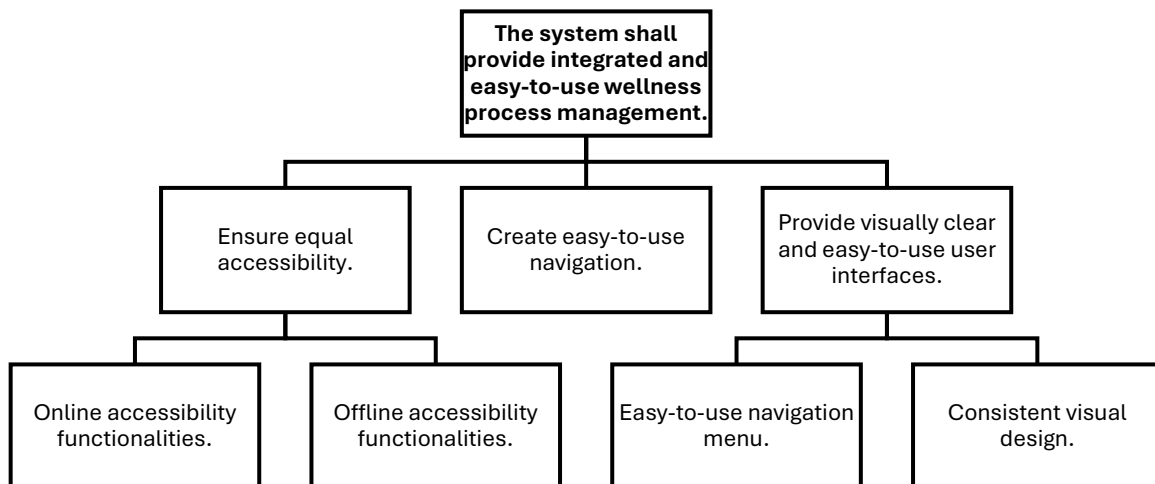   G1.2.1: Offline accessibility functionalities.

    G1.2.2: Online accessibility functionalities.

G1.3: Provide visually clear and easy-to-use user interfaces.

    G1.3.1: Easy-to-use navigation menu.

    G1.3.2: Consistent visual design.
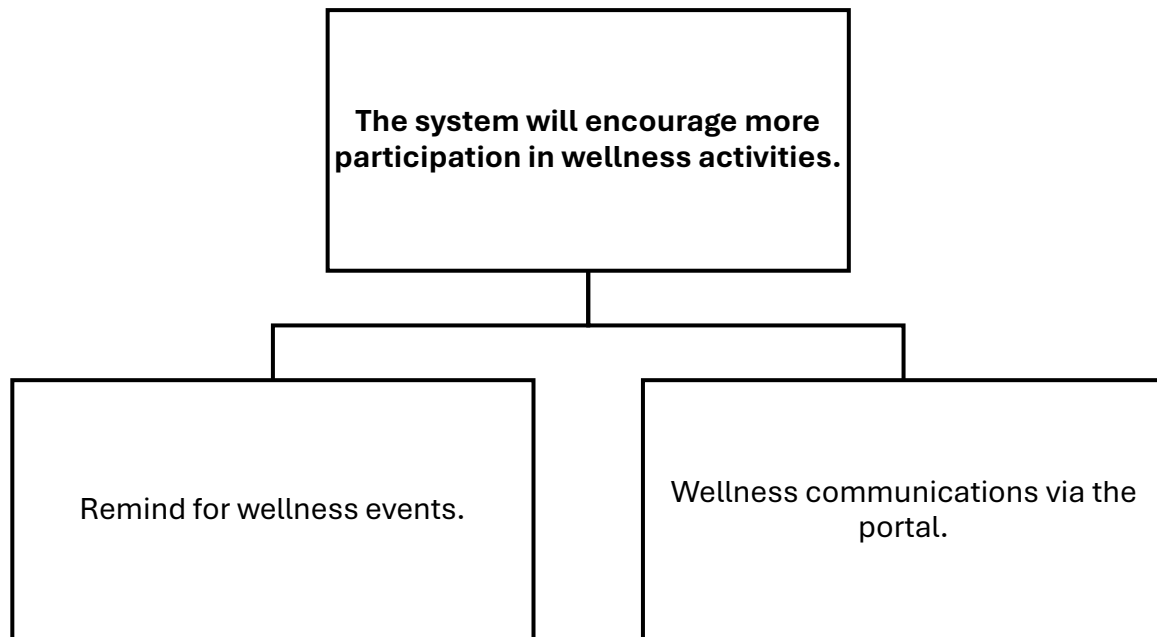
<u>Diagram</u>

G2: The system will encourage more participation in wellness activities.

G2.1: Remind for wellness events.

G2.2: Wellness communications via the portal.

Diagram

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┌─────────────────────────────────┐
│   The system will encourage more │
│  participation in wellness       │
│  activities.                     │
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│                  │  │                       │
│ Remind for       │  │ Wellness              │
│ wellness events. │  │ communications via the│
│                  │  │ portal.               │
└──────────────────┘  └──────────────────────┘
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G3: The system will enable efficient management of health and fitness services.
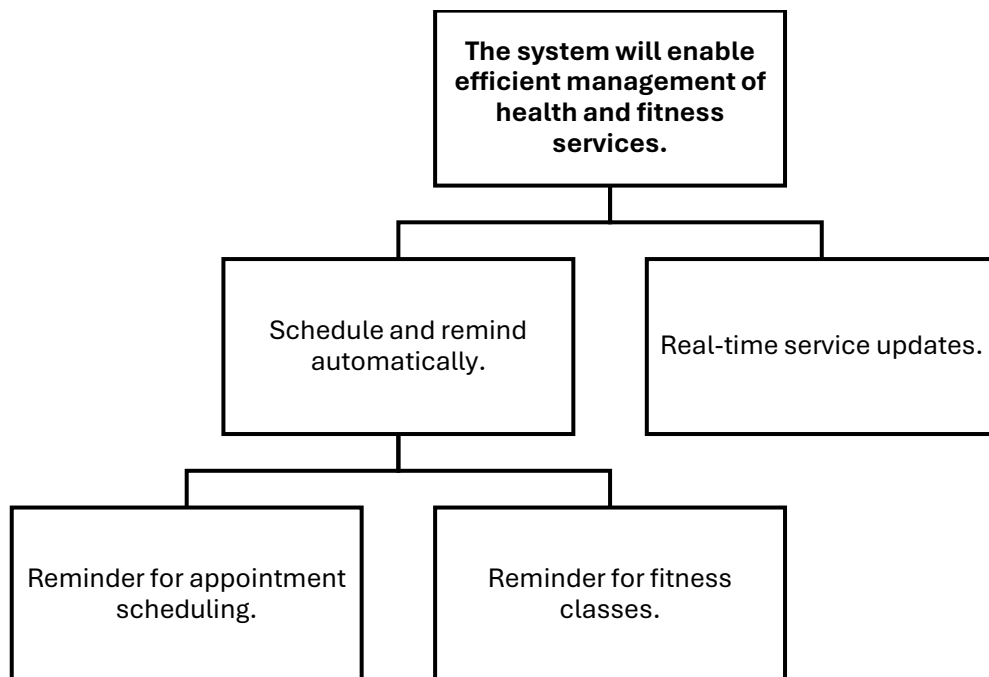
G3.1: Schedule and remind automatically.

G3.1.1: Reminder for appointment scheduling.

G3.1.2: Reminder for fitness classes.

G3.2: Real-time service updates.

<u>Diagram</u>

2.0 Objectives

The following objectives will inform the creation and effective use of the Campus Wellness Portal:

- Increased utilization of campus wellness services by 20% among students will be encouraged by the portal through increased visibility and accessibility. Increased access to information, convenience in scheduling services, and increased visibility of services that can be accessed are expected to generate a massive increase in utilization of such services by students in the first year.

- Achieve 85% of Students' Satisfaction with Scheduling and Fitness Programs. Priority will be placed on simplifying and explaining medical and fitness appointments with easy flow and real-time feedback to allow high student satisfaction.

- Automate at Least 50% of Administrative Tasks. Appointment and fitness class booking will be automated to minimize manual work so that staff can devote more time to student support with fewer delays and errors.

- Increase Timely Notification of Wellness Activities to 90% Awareness. Students will receive early reminders and alerts on wellness programs via multiple channels to maintain a minimum 90% awareness of available activities.

- Adhere Stringently to Data Security and Privacy Legislation. The portal will adhere stringently to data protection legislations to ensure user information protection and attempt not to have any data breach or privacy problem during the first year.
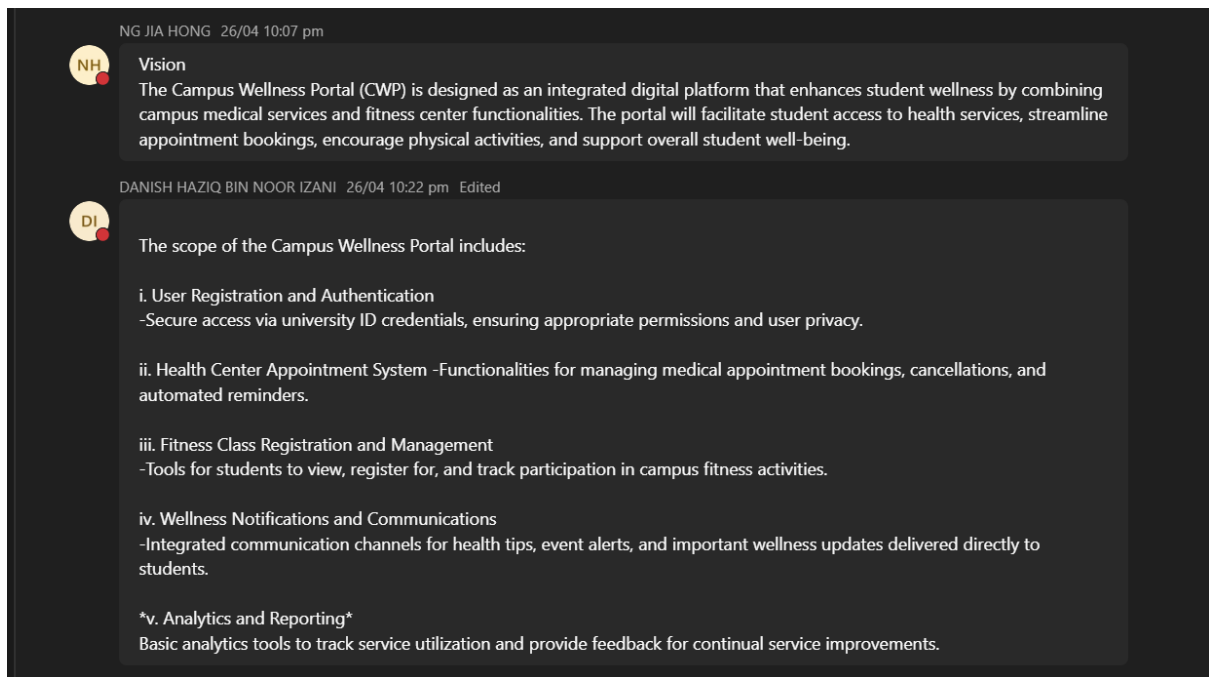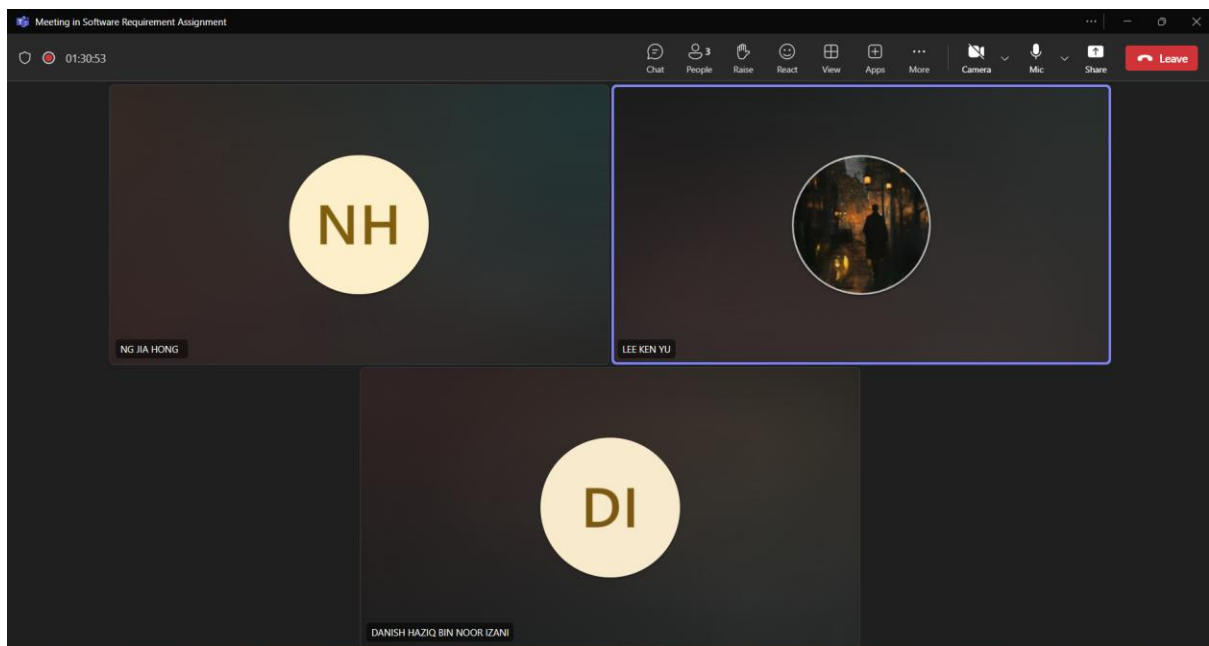
Evidence of Discussion

Figure 1 brainstorming in teams chat

Figure 2 brainstorming in a meeting after chat discussion