**INTI International College Penang School of Computing**

**3+0 Bachelor of Science (Hons) in Computer Science, in collaboration with Coventry University, UK**

**3+0 Bachelor of Science (Hons) in Computing, in collaboration with Coventry University, UK**

**Coursework cover sheet**

**Section A - To be completed by the student**

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| CU Student ID Number: 15095824 | |
| Semester: APR2024 | |
| Lecturer: Mr. Shahriman Mohd Said | |
| Module Code and Title: 5001CEM Software Engineering | |
| Assignment No. / Title: Portfolio | % Of Module Mark: 10% |
| Hand out date: 25 April 2024 | Due date: 25 June 2024 |
| Penalties: No late work will be accepted. If you are unable to submit coursework on time due to extenuating circumstances, you may be eligible for an extension. Please consult the lecturer. | |
| Declaration: I/we the undersigned confirm that I/we have read and agree to abide by the University regulations on plagiarism and cheating and Faculty coursework policies and procedures. I/we confirm that this piece of work is my/our own. I/we consent to appropriate storage of our work for plagiarism checking. | |

**Section B - To be completed by the module leader**

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| --- |
| Learning Outcomes  LO4 -Select, evaluate and use tools and techniques to successfully manage a large scale software  project, including configuration management and version control.  LO5 - Use a range of appropriate tools to contribute to the development of a solution to a real-world  problem.  LO6 - Select, evaluate and apply standards, tools and techniques for assuring software quality. |
| Lecturer’s Feedback |
| Internal Moderator’s Feedback |

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# **Introduction**

Sage Enterprise created and used the "Call a Doctor" (CaD) system, a revolutionary system designed to transform the way patients access medical care. By enabling patients to consult doctors from the comfort of their homes, this system bridges the gap between traditional healthcare and modern convenience. Through CaD, patients can effortlessly find and request home visits from registered clinics, enhancing the accessibility and efficiency of healthcare services.

# **Methodology Used for this project.**

The Agile Methodology is essential for this project. Agile focuses on cross-functional collaboration and continuous improvement in project management. It breaks down projects into manageable stages and guides teams through cycles of planning, execution, and evaluation.

The following are the main guiding principles for project management using the Agile methodology:

1. Evolution is welcomed at any stage of the process.
2. Products or services are delivered more frequently.
3. To achieve project success and optimal outcomes, all stakeholders and team members must remain motivated. Teams have all the necessary resources and support to complete the project.
4. In-person meetings are considered the most effective and efficient means of communication for project success.
5. The ultimate measure of success is a functioning final product.
6. Agile methods allow stakeholders and development teams to work at a steady and sustainable pace, fostering continuous progress.
7. A constant focus on technical excellence and solid planning will enhance agility.
8. Simplicity must be a priority at every stage of the project.
9. Self-organizing teams are more likely to generate the best ideas and projects while meeting the requirements.
10. Teams adjust their behaviour to boost productivity and efficiency.

# **Importance of the system in real world**

The Call a Doctor (CaD) system is extremely important. By providing patients with a centralized platform to request doctor visits at home, it streamlines and organizes the process of accessing medical care. The system automates tedious tasks such as managing appointment requests and verifying clinic registrations. This increases overall efficiency, reduces administrative burdens, and saves both patients and healthcare providers time and money.

The CaD system enhances collaboration and communication among various stakeholders in the healthcare process. Patients are promptly and clearly informed about the status of their doctor requests and any changes to appointment schedules. Through the system, clinic administrators, doctors, and patients can work together and communicate effectively. This fosters cooperation, increases transparency, and ensures that everyone involved is on the same page.

Additionally, the CaD system helps maintain accurate records of patient visits and medical prescriptions. The technology enables clinic administrators to track the status of doctors, manage patient requests efficiently, and ensure that resources are allocated appropriately. The system can also assist in modifying schedules or reallocating doctors to meet demand, ensuring optimal use of available medical resources. To ensure data integrity and accessibility for future reference, the system allows administrators to back up and securely store patient records.

Overall, the Call a Doctor system is essential for improving communication, better managing healthcare services, and maintaining accurate records. It enhances the efficiency, productivity, and cost-effectiveness of medical care delivery, ultimately benefiting both patients and healthcare providers.

# **Progress Cycle**

### **CYCLE 1**

**Meeting 1**

**Date:** 10/04/2024

**Method:** (Face to Face)

**Meeting Description:** Discussion of the intended purpose

**Attendance:** Linkesh, Harvind

A close-up of a paper

Description automatically generatedA spiral notebook with a pen and diagram

Description automatically generated

We discussed adding the feature to the system and use case diagram during this meeting depending on the assignment requirement.

### **CYCLE 2**

**Meeting 2**

**Date:** 01/05/2024

**Method:** (Face to face)

**Meeting Description:** Discussion of the system prototype

**Attendance:** Linkesh, Harvind

A close-up of a login page

Description automatically generated

We discussed the color schemes to employ as well as the design of the prototype.

### **CYCLE 3**

**Meeting 3**

**Date:** 18/05/2024

**Method:** (Face to Face)

**Meeting Description:** Discussion and development of a system prototype

**Attendance:** Linkesh, Harvind

Pages were made during the meeting for each function, and the person in charge of designing the prototypes was given responsibility for each page.

I was assigned to develop prototype of Admin Cad Login Page, Doctor Cad Login Page, Patient Cad Login Page, Doctor Cad Register Page, Patient Cad Register Page, Admin Cad Home Page, Doctor Cad Home Page and Patient Cad Home Page,

The evidence of one of the prototypes I design is below.

A screenshot of a computer screen

Description automatically generated

**Prototype Link:** <https://www.figma.com/design/7xrhQRkcFjIAyDGaHRXet9/Sage-mode?node-id=0-1&t=SFWPJs8yHJBS5yu6-0>

### **CYCLE 4**

**Meeting 4**

**Date:** 20/05/2024

**Method:** (Face to Face)

**Meeting Description:** Discussion and development of a system prototype

**Attendance:** Linkesh, Harvind

There were still some pages left to complete our prototypes.

I was assigned to develop prototype of Patient home page, Patient notification page, Patient search/view page, Patient request for doctor page, Patient profile, Admin home page, Admin notification page, Admin patient management page and Admin doctor management page.

With this, we have completed our prototypes. The evidence of one of the prototypes I design is below.

A screenshot of a medical appointment form

Description automatically generated A paper with writing on it

Description automatically generated

### **CYCLE 5**

**Meeting 5**

**Date:** 01/06/2024

**Method:** (Online)

**Meeting Description:** Database Creation

**Attendance:** Linkesh, Harvind

A screenshot of a computer

Description automatically generated A screen shot of a computer

Description automatically generated

I was given the work to construct the database in mysql. The database was created to hold the data utilized in the system. But first, we discussed about the number of tables and the primary keys of each tables.