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**COIT20258: SOFTWARE ENGINEERING**

**Term 1, 2024**

**ASSESSMENT 3 – GROUP ASSIGNMENT (AIS-R-ENHANCED)**

**(Team Report)**

**Sydney Campus**

6th June 2024

**Unit Coordinator Student:**

MAHBUB AHMEDTaimour Shahzad

**Tutor: 12210758**

ZAKIULLAH KHAN

# **Group Members:**

Here are the group members name with their enrolment number.

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| --- | --- |
| Team Name | TVM |
| Myself group leader | Taimour Shahzad 12210758 |
| Others Team Member Name and Student ID | Milan Korangi 12213436  Varian Valerian Rumao - 12222847 |

# **Group’s role Introduction**

**TAIMOUR SHAHZAD**

I was given the role of project planning, coordinating with group members, and organizing meetings. I also worked on programming the management staff section and later managed uploading the CSV data to the database.

**MILAN KORANGI**

He was assigned and responsible for developing the multi-threaded server-side model, the client user interface, and the database connection. Initially, his role was to introduce and discuss the code from assignment 2 with all the members.

**VARIAN VALERIAN RUMAO**

Varian was primarily responsible for drawing diagrams and testing the project. Later on, he created a test plan to thoroughly test the project and handled all the documentation tasks.

**In week 9, we formed our group. During week 10, we planned the project and assigned tasks to each member. By week 11, we set up the project and began working on our individual parts. In week 12, we finalized our individual contributions and integrated them into the overall project. Finally, in week 13, we conducted testing and completed the documentation.**

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**Problems Identified**

We encountered several problems during our project.

Problem 1 was setting up the computer environment for development. All members faced difficulties in finding compatible versions of the server, JDK, and Jakarta API. After two days of continuous debugging and testing various versions,

Problem 2 involved integrating the frontend and backend, and implementing SMTP verification. Two members worked on the controller and user interface parts separately, which caused issues when combining them. Additionally, generating verification code was time-consuming. To resolve this, we watched the week 9 tutorial video and examined a sample project, which helped us correctly invoke the controller. For the verification part, we followed the week 10 sample project and tutorial video to implement the solution.

We faced two significant collaborative problems during our project and found ways to resolve them.

Problem 1: Setting up the multi-threaded server

Description: Although we formed our group in week 6, we didn't start the project until week 9, spending the first four weeks on discussions. We all eventually agreed to begin working and to discuss each person's progress daily. Setting up the computer environment was particularly challenging, as no one's computer was initially configured for the project.

Solution: To address this, we began holding daily meetings to share our progress and troubleshoot issues. Everyone was concerned about the complexity and size of the setup, so we worked together to find solutions. Finally, we were able to configure our computers and get the project running.

Problem 2: Client-server communication

Description: We divided the tasks among the team members, assigning roles such as presentation, model, controller, and persistence. However, after each member completed their assigned tasks, we found it difficult to integrate the entire project.

Solution: In week 10, we shifted our approach and started working collaboratively on individual tasks, such as authentication, car management, customer handling, and order modules. This way, each member contributed to all parts of the project, making integration smoother and more efficient.

Teamwork and effective communication are vital components for the success of any project. When team members work together collaboratively, they can achieve more than if they were working individually.

In a team, each member brings different skills, knowledge, and perspectives to the table. By working together, they can combine these strengths to overcome challenges and produce innovative solutions. Effective communication among team members ensures that everyone is on the same page, understands their roles and responsibilities, and can contribute to the project's progress.

When team members communicate openly and regularly, they can quickly identify and address any issues or obstacles that may arise. This allows the team to make timely adjustments, maintain momentum, and stay focused on achieving their goals. Clear and transparent communication also fosters trust among team members, creating a supportive and positive working environment.

Furthermore, effective teamwork and communication promote synergy within the group. When individuals collaborate and communicate effectively, they can leverage each other's strengths and compensate for weaknesses, leading to improved efficiency and productivity. Ultimately, strong teamwork and communication are essential for achieving success in any project, as they enable the team to work cohesively towards a common objective.

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