NAMIBIA UNIVERSITY
OF SCIENCE AND TECHNOLOGY
Faculty of Computing and Informatics
School of Computing
Department of Software Engineering

13 Jackson Kaujeua Street
Private Bag 13388
Windhoek
NAMIBIA

T: +264 61 207 2052
F: +264 61 207 9052
E: dse@nust.na
W: www.nust.na

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Project Structure

Course Aims:

The primary objective of this course is to furnish students with the necessary skills to conduct verification and validation processes for software systems. These competencies are crucial in ensuring that the resultant system adheres to its specification and fulfills the expectations of stakeholders.

Instructions to Students:

a) The deliverables constitute a portion of your final assessment.

b) Should you encounter any queries or difficulties regarding the project, please do not hesitate to reach out to your lecturer.

c) The project is to be undertaken in a group of 2 members (Please ensure that you verify the member assigned to you in the "Test Project Groupings".

d) Each phase of the project has a predefined deadline. It is imperative to adhere to these deadlines and submit the deliverables punctually.

e) Plagiarism is strictly prohibited and will result in severe consequences (please refer to the Course Outline).

f) Please be advised that every deliverable must be accompanied by a log sheet detailing activities and individual contributions.

Project Description:

Please initiate contact with your designated Client as specified in the Project Groupings. Ensure professionalism in all your interactions with the client.

Advice to the Groups:

• Prior to commencing the project, engage in brainstorming sessions and discussions within the group to review and establish a shared understanding of skills acquired from prior courses such as Design Thinking, etc.

• NOTE: Extensive research (online, library resources, etc.) and reading are strongly recommended.

Make sure that you cc me in all project related emails to the clients. The clients are informed that if a group does not cc me, your emails will not be considered.

• Endeavor to address all project-related issues, including non-participation of group members. If you are unable to resolve this matter, please ensure to send an official email to me directly, while copying your respective class representative. In the email, please outline all relevant facts regarding the issue, ensuring that your team member is included in the

communication to us. It's essential to address this well in advance and not wait until the last minute to handle it.

Deliverables/Deadlines:

• Please honor the specified deadlines.

• All submissions must be made via eLearning (hard copies or email submissions will not be accepted).

• NOTE: Only ONE member from each group is responsible for uploading the project components. Ensure unanimous agreement on this matter so that the designated member is aware of the deadline.

NOTE: Kindly adhere to the deadlines (*FOR EACH PHASE DELIVERABLE, PLEASE SUBMIT A LOGSHEET FOR EACH ACTIVITY AND A PLAGIARISM REPORT*).

Prepare scientific and technical documentation outlining project activities.

Tasks Due Date:

a) Document your interactions and collaboration with peers and experts in executing a test project and/or research activity. • Phase 1 concludes 28 March 2024

b) Document your evaluation of concepts and principles pertaining to requirements analysis and specification, including relevant tools, techniques, and software system modeling methods. • Phase 2 concludes 26 April 2024

c) Document the application of software engineering principles across various domains of differing complexity. • Phase 3 concludes 17 May 2024

e) Outline an innovative technical solution to an application problem that aligns with technical, functional, and organizational constraints and requirements. Develop automated strategies for testing, verification, and validation of ideas to prevent wastage and achieve desired outcomes. • Phase 4 concludes 3 June 2024