INCEPTION REPORT

Artifacts for Inception

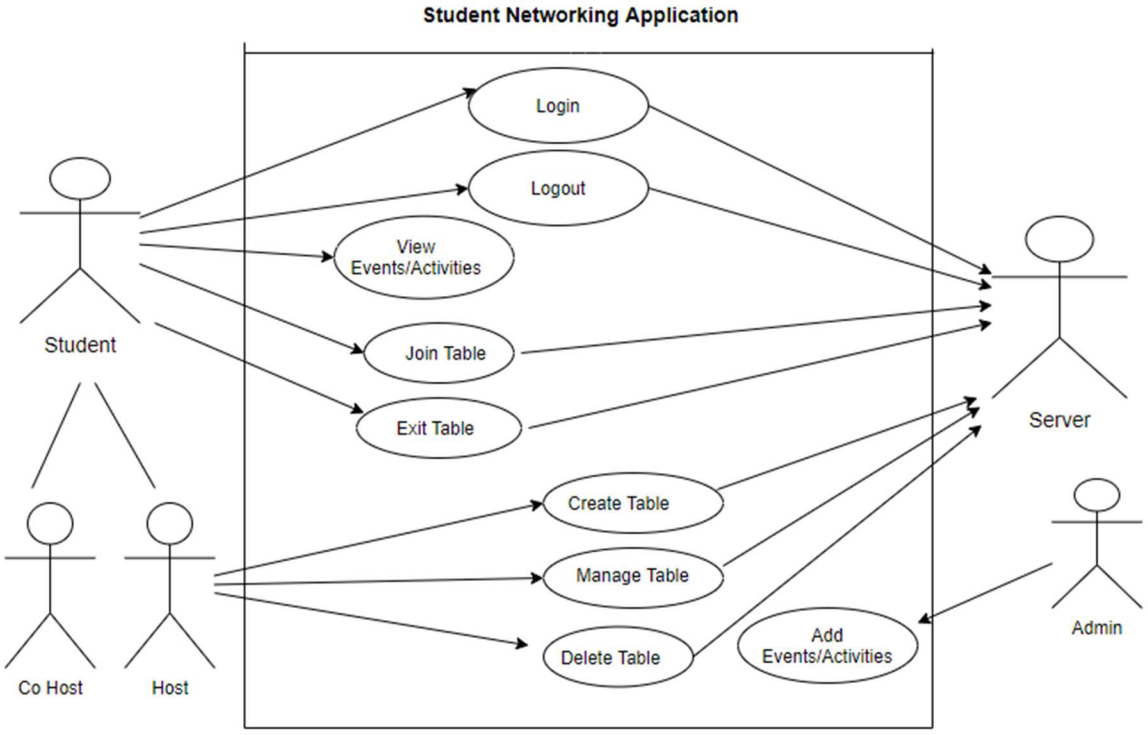
Vision Statement

Student networking application provides the students with a virtual environment to communicate with peer students of a particular university by gathering at a table. Further, it shares the information related to the events and activities happening shortly in the university. The website's goal is to help students exchange ideas, collaborate with peers and enhance their skills.

Business Case

Project Name	Student networking application
Project Organization	University of Windsor
Project Facilitator	Dr. Ziad Kobti
Date of Project Approval	21st October, 2020
Last Revision Date	21st October, 2020
Project Reason	Due to COVID-19, education institutions have shifted their base to conduct classes to virtual platforms which disrupted the environment for student networking. So, this project helps students interact with each other and discuss or participate in group activities to enhance their skills.
Benefits	1. Supports tracking of events and activities happening in the universities. 2. Provides a virtual platform to conduct group meetups. 3. Help students exchange ideas, collaborate with peers and participate in fun activities.
Time Scales	The project development will take approximately 6 weeks to implement.
Budget	Hardware and Software are all allocated by the University at free of cost. The man power hours required for the project are approximately 200 hours.

Use-Case Model



In the above UML diagram, we can see that Student has two specific roles that are Host and Co-host for a discussion table. Admin is the person who has complete access to the application and its database. Server is the interface that automatically responds to the student operations.

Supplementary specification

Objective: The purpose of the supplement specification document is to define the additional requirements other than the requirements specified in the use case model. The supplementary specification and use case model together include all the system requirements for developing student networking web application.

Scope: The student networking web application is developed by a team of four members from University of Windsor, Master of Applied Computing, Fall 2020. This application is a client server application for interaction between students.

This application enables students to participate in group meetups and trace the information about all the events and activities happening shortly in the university.

The supplementary specifications for this application are application standards, legal and regulatory requirements, usability, reliability, supportability requirements and design constraints which are the non-functional requirements of the system.

Non-Functional Requirements:

- **Application Standards:** This web application follows coding and security standards like W3C, OWASP to enhance the security and understandability of code.
- **Legal and regulatory requirements:** This application maintains efficient privacy and security policies and terms and conditions to prevent law violations.
- **Usability:** All the features included should be easily accessible and help documentation is provided to understand the steps to easily navigate through the website.
- **Reliability:** The website provides 24/7 services with very low downtime for updates and the performance of the system is well maintained.
- **Supportability:** The website works on all major web browsers.
- **Design constraints:**
  Programming Languages: HTML5, CSS3, Bootstrap, JS, Php
  Nonstructural languages: SQL
  Database: MySQL
  Version Control System: Git

Glossary

Table: The virtual room to conduct a discussion or group activity.
Host: The person who starts the discussion table and has full control to manage the table and the participants on the table.
Co-host: The person who has full control to manage the participants.

Prototypes and proof of concepts

The following has the prototype design for Student Networking Application:

https://www.figma.com/proto/kXCwTf72a04kKF47XC5HxP/After?node-id=49%3A1682&scaling=min-zoom

Risk List and Management Plan

Risk Type	Management Plan
Privacy and Security for the student information	Use SHA256 encryption algorithm and HTTPS and transport layer security protocols. Set and specify private policy to protect the personal information.
Misconduct behavior	Add a report feature that handles the situation of misconduct.
Unattended tables	Auto delete the unattended tables after every hour.
Sensitive topics	Add terms and conditions notifying the users to avoid sensitive discussions.
Disguised signup	Limit the sign up with the students having authorized tokens in form of links.
Unnecessary interruption by a user	Allocate host the privilege to kick out the interrupting candidate.
Application hacked or crashing	Use web security standards in the application development.

Iteration Plan for Inception Phase:

Objective: The purpose of the iteration plan for the inception phase is to gather the requirements for the application and develop an abstract plan for complete implementation of the project. In the inception phase, the business case for the application is created and analyzed to decide on the decision to proceed with the project.

Scope: This document is used as a reference for the project team to understand their goals.

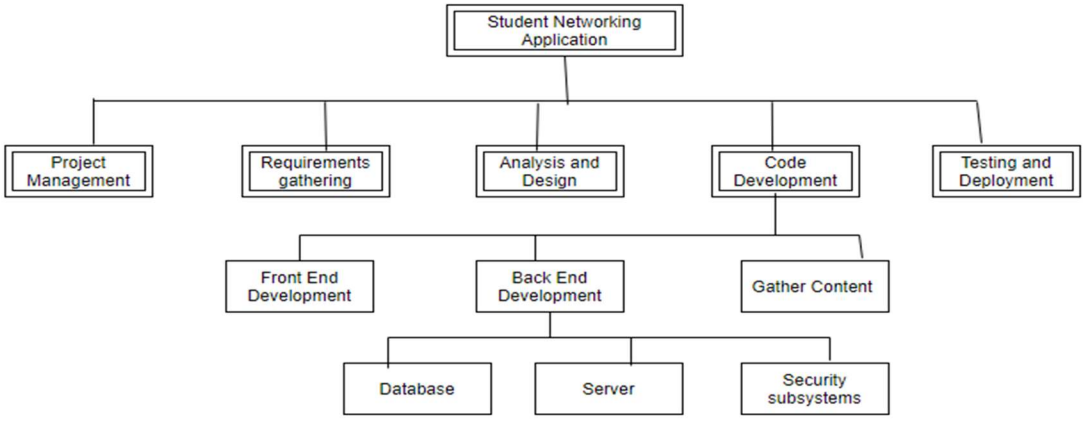
Iteration Plan Item List:

Artifact	Due Date
Initial Project Plan	21/10/2020
Vision and Business Case	24/10/2020
Supplementary Requirements	24/10/2020
Use Case Model	25/10/2020
Risk List and Management Plan	26/10/2020
Environment and Tools	27/10/2020
Test Plan	27/10/2020
Elaboration Iteration Plan	28/10/2020

Evaluation Criteria: Evaluates whether the above listed items are completed or not. If all the planned items are completed successfully then they can readily start the next iteration phase.

Phase plan:

Work Breakdown structure:



Software development plan:

Objective: The purpose of this software development plan is to control the development of the project by gathering all the requirements and designing an approach to follow in the development process.

Scope: It covers the overall plan for the student networking application development to deployment process.

Software Development Plan Information:
Project Overview: The purpose of this project is to provide a virtual meetup environment for students to collaborate and enhance their capabilities. The final deliverable excepted from this project is a website which helps to create virtual rooms for discussions or group activities.

Project Organization: The project involves four team members who will be equally responsible to share the work and deliver in dedicated timelines.

Management Plan: The hardware and software requirements for the project are provided by the university and the project team will spend time developing the project.

Development Case:

Objective: The purpose of the development case is to customize the RUP process to ease the process of software development.

Scope: This is developed by a process engineer who thoroughly understand all the processes of software development

In this project, we are working on three iteration processes

1) Inception phase - for 2 weeks
2) Elaboration phase 1 - for 2 weeks
3) Elaboration phase 2 - for 2 weeks

The development case can be altered at each iteration phase.

Links to the documentation website:

https://gitlab.cs.uwindsor.ca/ase_team1/student-networking-application/

The project is in private mode and can be accessed by the group members only

Readme file in the repository is useful for documentation

Software Project Management URL:

https://redmine.cs.uwindsor.ca/projects/ase-team1