

**CEBU INSTITUTE OF TECHNOLOGY
UNIVERSITY**

COLLEGE OF COMPUTER STUDIES

Software Requirements Specifications

for

TekSpace - Admin

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Change History

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Preface

This document is the Software Requirements Specifications (SRS) of the TekSpace software application for Administration. It aims to provide the detailed and complete specifications of the software. The content of the document herein contains what the developers had followed and applied with utmost care.

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Table 2.0 – **Definitions, Acronyms, and Abbreviations**

Table 3.0 - **Product Functions**

As of Version 1.2

Table 1.0 – **Change History**

Table 2.0 – **Definitions, Acronyms, and Abbreviations**

Table 3.1 - **Product Functions - Web Application (Administration)**

1. Introduction

1.1 Purpose

Purpose of the SRS:

The main purpose of this document is to present the comprehensive and necessary information and specifications of TekSpace-Admin. This document will serve as a guide and repository of answers for all the questions that the client may ask.

Purpose of the Application:

The purpose of this application is to serve as a tool for career guidance and networking on an institutional-level wherein the user's achievements and accomplishments are compiled in a digital portfolio to be used in future ventures as they learn under their instructors in making informed educational and career choices.

1.2 Scope

Scope of the SRS:

- Definition of Technical Terms
- References
- Product Descriptions
- Specific software requirements including user interfaces in the form of wireframes

Scope of the Application:

- Database Utilization
- Digital Portfolio
- Social Platform System
- Career Guiding System

1.3 Definitions, Acronyms and Abbreviations

TERM	DEFINITION
LMS	Acronym for Learning Management System
Portfolio	Displays the user's accomplishments and achievements (e.g. certificates and badges) gained from completing each IKIGAI session.
Analytics	Shows a graphical representation of student information and data.

IKIGAI Sessions	A thematic term for Learning Sessions wherein it contains all the user's assigned modules and respective tasks.
Learning Modules	Provides a series of educational materials to students.
Learning Tasks	Displays all the allocated assignments or assessments to be answered and submitted.

1.4 References

- Django Documentation: <https://docs.djangoproject.com/en/3.1/>

1.5 Overview

TekSpace is a platform similar to an eLearning software application, however, what makes it so unique is that it is focused solely on teaching career-related skills and knowledge rather than focusing on academic education.

TekSpace also has the addition of a digital portfolio intended to be used as a pseudo résumé for future ventures. It also contains the analytics of the user that serves as a visual representation of progress which in turn, hopefully, motivates and encourages students to perform their utmost best. TekSpace also included a basic social platform system wherein its purpose is to connect and build relationships amongst peers of similar interest.

Overall, TekSpace is dedicated to aiding students in becoming a career-and-industry-ready individual who makes informed educational and occupational choices.

2. Overall Description

2.1 Product perspective

TekSpace is a learning management system, a digital portfolio system, and a social platform system designed for the development of skills of its users. This software can be utilized in the form of a web application. It is programmed using the following third-party platform/s:

- Django

The learning management system is solely for providing career knowledge and skills to learners and is used to ease the monitoring, distribution and evaluation of educational courses, learning modules and development materials. The digital portfolio system shows all the user's achievements and accomplishments, such as skills gained and workshops attended, to be used as résumé for future prospects. The social platform system is intended for the users to interact, connect and build relationships with their peers as well as develop their comprehensive understanding of self through club or organization interactions and participation.

2.2 Product functions

Web Application

Code	Method
Mod100	Login
Mod200	Dashboard
Mod300	Students
Mod301	Add Students
Mod302	View Student Portfolio
Mod303	Message Student
Mod400	Sessions
Mod401	Add/Remove Modules
Mod402	Add/Remove Tasks
Mod403	View Students involved in Sessions
Mod404	View Student Progress in Session
Mod405	View Analytics
Mod500	Social Network
Mod501	Social Page Interest View

Mod502	Social Page Add Interest
Mod503	Social Page Update Interest
Mod504	Social Page Add Activity
Mod505	Social Page Update Activity

2.3 User characteristics

The intended audience of TekSpace is the college students and administrators of Teknoy Ikigai Center of Cebu Institute of Technology - University (CIT-U).

2.4. Constraints

The user must be a student or an administrator of the Cebu Institute of Technology - University (CIT-U) for them to have an authorized account. A stable internet connection is also required to use TekSpace.

2.5. Assumptions and dependencies

The completion of TekSpace depends on the following external technologies:

- Django

3. Specific Requirements

3.1 External interface requirements

3.1.1 User interfaces



Login Screen

The dashboard features a sidebar with "Dashboard", "Fields", "Students", "Sessions", and "Social Network". The main area has three cards: "Active Now" (50 students), "Task Submissions" (30), and "Sessions" (3). Below are two charts: "Activity Trend" (line graph) and "Student Summary" (bar chart).

Field	Count
HS	100
CI	80
SE	70
SA	60
EA	50
CS	40

Dashboard Screen

The profile screen shows a circular profile picture of Ada Velasquez, her name, college, and email. It includes sections for "ABOUT", "Academic Background", "Experiences", and "Experiments".

ABOUT

Ada
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Academic Background
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Experiences
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Institution: Cebu Institute of Technology University
Course: Bachelor of Science in Computer Science
Email: ada.velasquez@cit.edu
Department: Computer Studies
Role/Status: Professional
Gender: Female
City: Cebu City
Province: Cebu
Country: Philippines

Admin Profile Screen

Student ID	Firstname	Lastname	Course	Year	Action
16-0248-005	Melgwen	Cariquitan	BS Biology	3	
16-0249-001	Mel Jay	Llanos	BSCS	3	
17-0249-759	Wesley	Dacuyan	BSCS	1	
17-1234-012	Jecce Ryn	Obrero	BSCS	2	
18-0245-003	Primrose	Maniosa	BSCS	3	

Showing 1 to 5 of 5 entries

Student List Screen



Samantha del Santos
Bachelor of Science in Computer Science - 1
samanthadel.santos@cit.edu

ABOUT
Samantha
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Academic Background
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Experiences
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Certificates
Lorem ipsum
Jan 08, 2020
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Badges

Student Portfolio Screen Pt1

Samantha del Santos
Bachelor of Science in Computer Science - 1
samanthadel.santos@cit.edu

Certificates
Lorem ipsum
Jan 08, 2020
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Phasellus sagittis.

Badges

Interest

Student Portfolio Screen Pt2

Student Portfolio Screen Pt 3

Session No	Name	Action
1	CIT - 101 I am Teknoy	
2	CIT - 102 Study Habits	
3	CIT - 103 Teknoy Values Formation	

List of Learning Sessions Screen

Module	File	Action
Module 1	Tekspace.txt	
Module 1	Tekspace(2).txt	
Module 2	Tekspace.txt	
Module 2	Tekspace(2).txt	

Session Actions Screen - Modules

Task	Status	Due Date	Created	Action
Essay Writing	5/30	Due: Jan 08, 2021	Created: Jan 01, 2021	X
Quiz 1	10/30	Due: Jan 08, 2021	Created: Jan 01, 2021	X

Session Actions Screen - Tasks

Student ID	Firstname	Lastname	Course	Year	Action
16-0248-005	Melgwen	Cariquan	BS Biology	3	
16-0249-001	Meljay	Ulanos	BSCS	3	
17-0249-759	Wiley	Dacuyan	BSCS	1	
17-1234-012	Jecee Ryn	Obrero	BSCS	2	
18-0245-003	Primrose	Manlissa	BSCS	3	

Session Actions Screen - Students

Samantha del Santos
Bachelor of Science in Computer Science - 1

Score Trend

Score Trend

Label

Checklist Status

50% Complete

Submissions

1. Essay Writing ----- 10/10
2. Module Quiz ----- 18/25
3. Assessment ----- 8/10

Session Actions Screen - View Student's Progress

Go back

CIT - 101 I am Teknoy

Modules Tasks Students Analytics

Label

Scoreboard Trend Post 1 Month

Total Progress : 21%

Leaderboard

- Primrose Manlosa
- Lhora Alvarez
- Melgwen Carlquitan

Session Actions Screen - Analytics

Interest

Robotics Writing Arts Photography Debate Reading

Activity

Today	Name	Date	Venue	Details
	Sumobot Contest	3-12-2021	CIT-U	On-going
Upcoming				
	ArtFest	4-12-2021	CIT-U	Open
	Essay Writing	6-12-2021	ZOOM Meeting	Closed

Social Network Screen - Interests and Activities

Interest > Robotics

Update Remove

Current Followers

- Primrose Manlosa
- Primrose Manlosa
- Primrose Manlosa
- Primrose Manlosa

Social Network Screen - Interest View

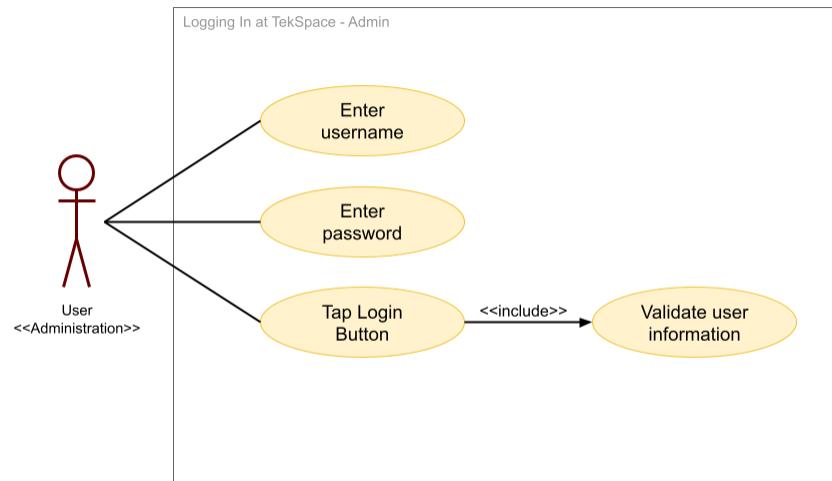
3.1.2. Software interfaces

This subsection enumerates all required software interfaces.

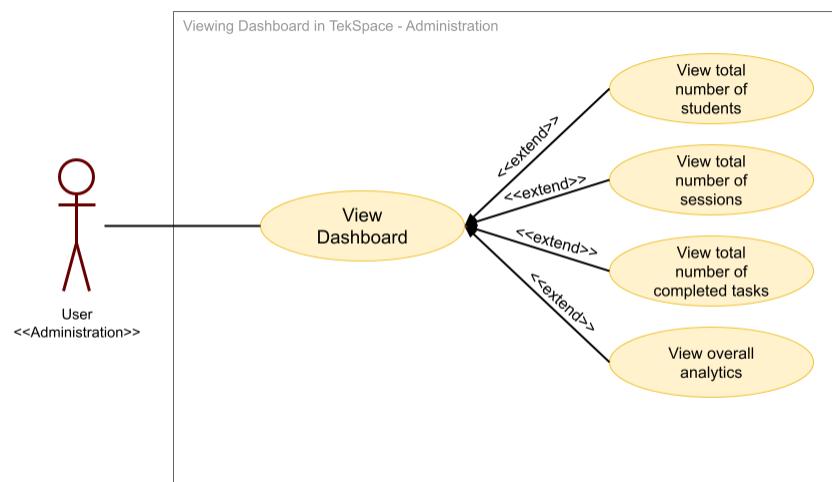
- MS Account - MS Account System shall be utilized as institutional email.

3.2 Functional requirements

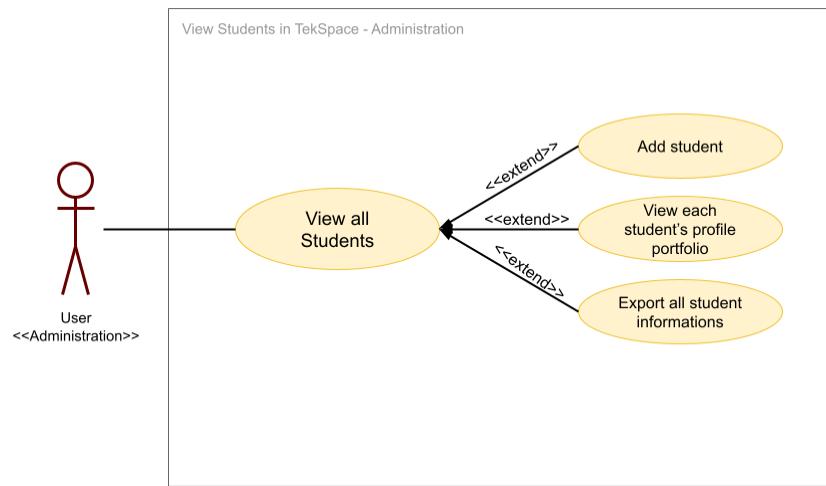
3.2.1. User Login (Web - Administration)



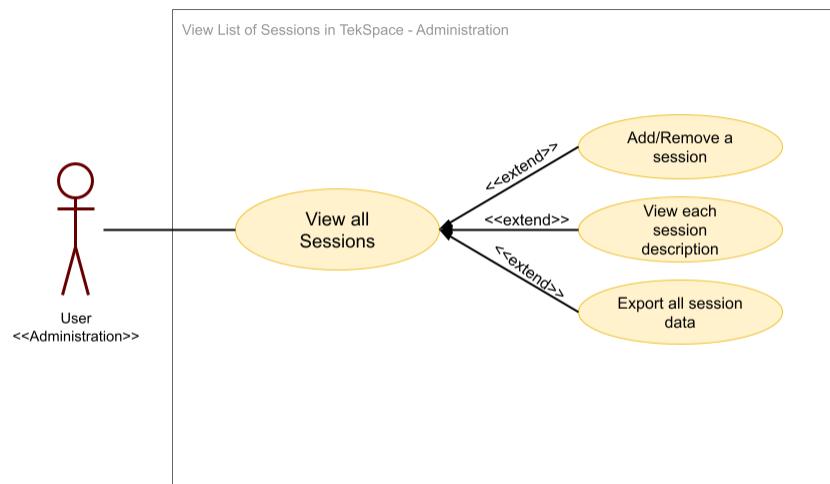
3.2.2. Viewing Dashboard (Web - Administration)



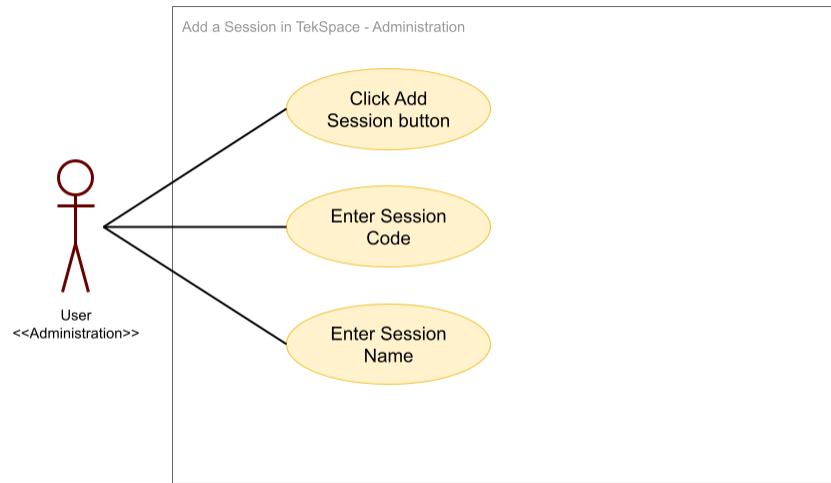
3.2.3. Viewing Students (Web - Administration)



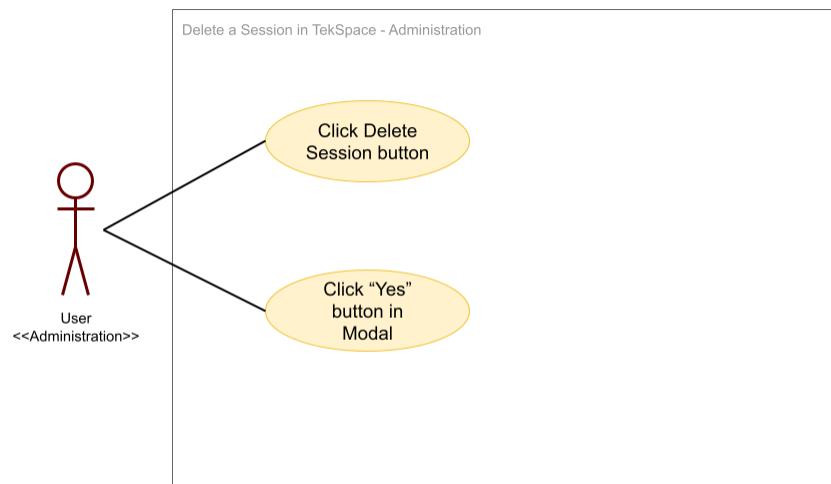
3.2.4. Viewing List of Sessions (Web - Administration)



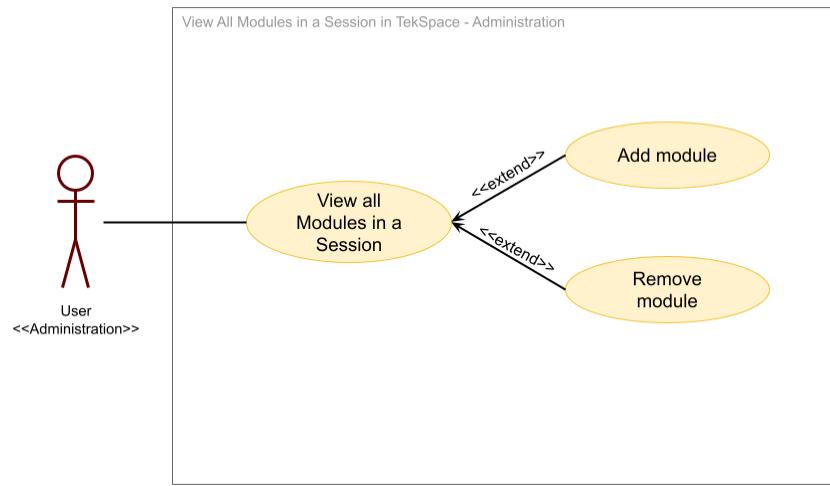
3.2.5. Adding a Session (Web - Administration)



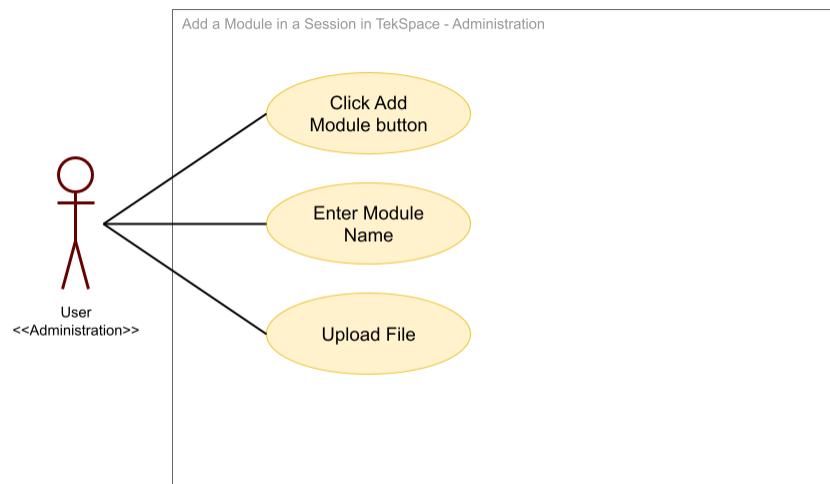
3.2.6. Deleting a Session (Web - Administration)



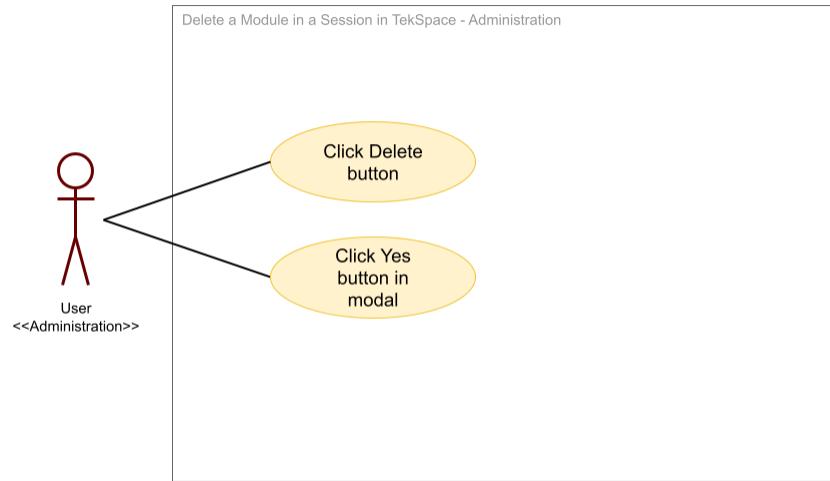
3.2.7. Viewing All Modules in a Session (Web - Administration)



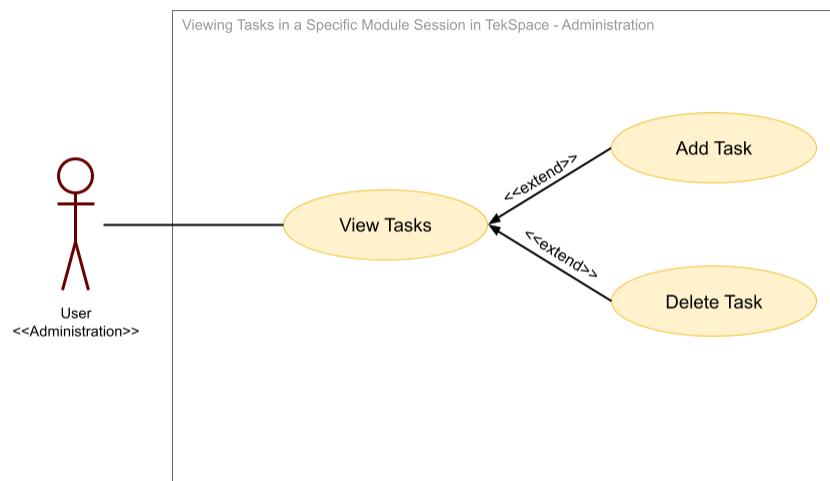
3.2.8. Adding a Module in a Session (Web - Administration)



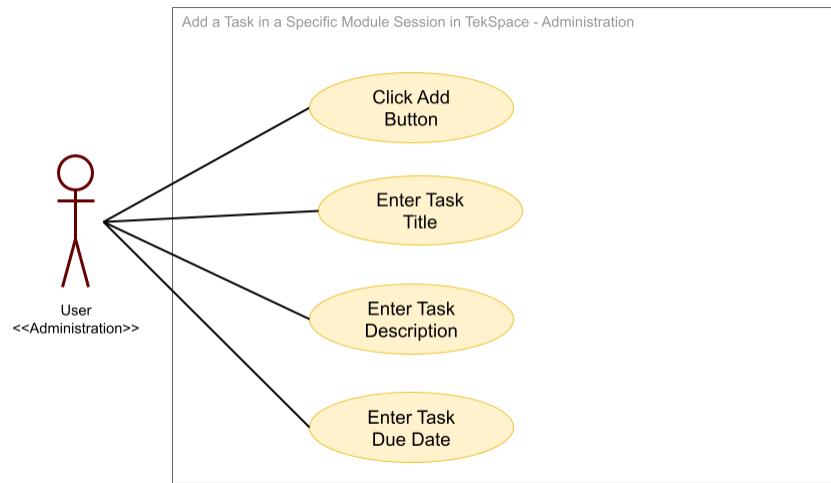
3.2.9. Deleting a Module in a Session (Web - Administration)



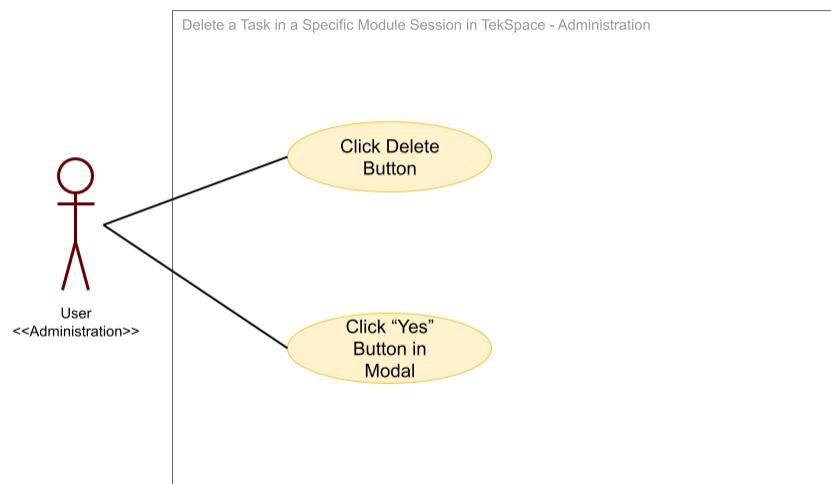
3.2.10. Viewing Tasks in a Specific Module Session (Web - Administration)



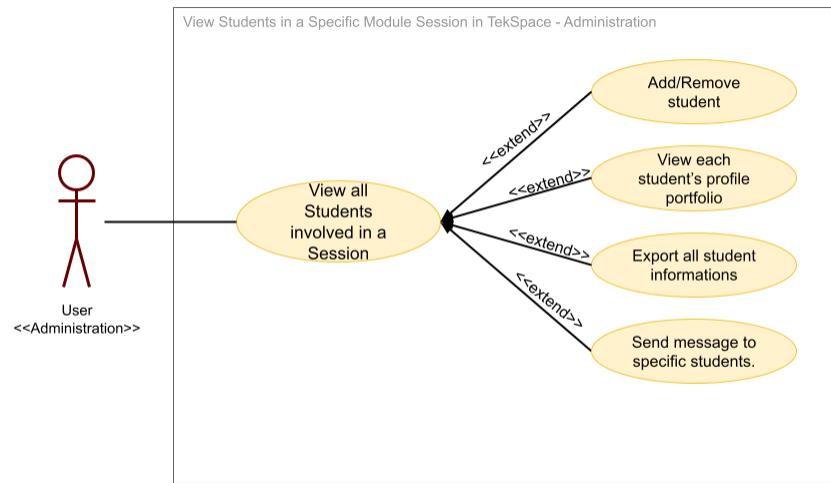
3.2.11. Adding a Task in a Specific Module Session (Web - Administration)



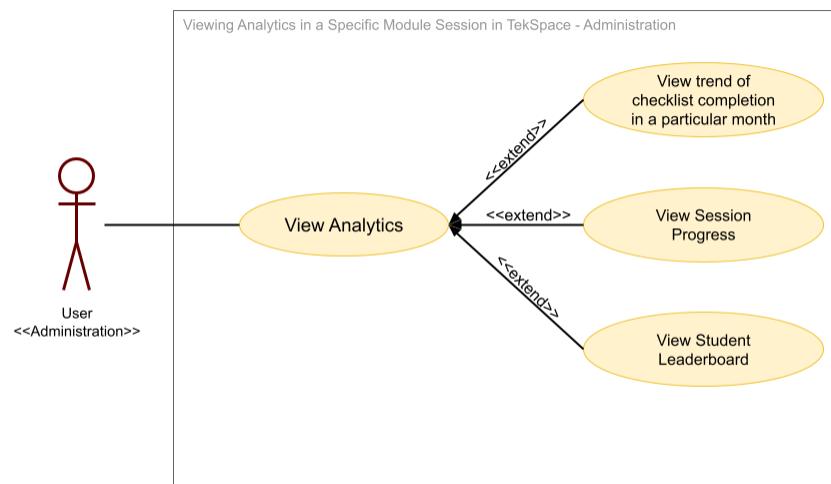
3.2.12. Deleting a Task in a Specific Module Session (Web - Administration)



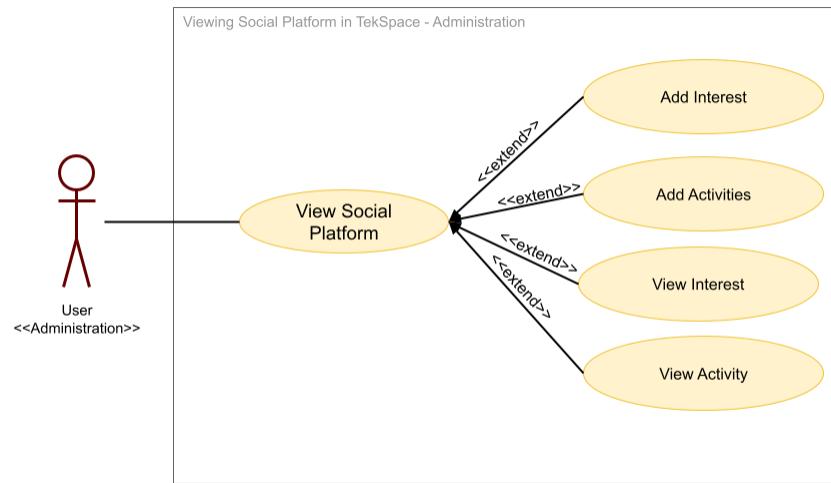
3.2.13. Viewing Students in a Specific Module Session (Web - Administration)



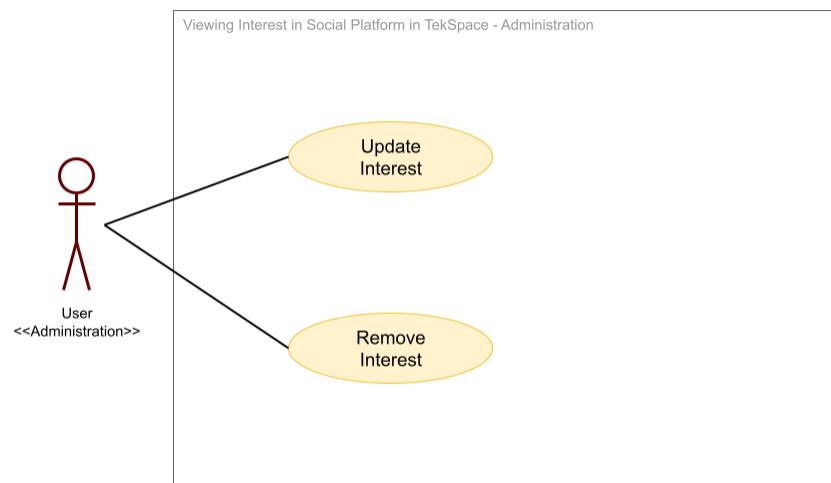
3.2.14. Viewing Analytics in a Specific Module Session (Web - Administration)



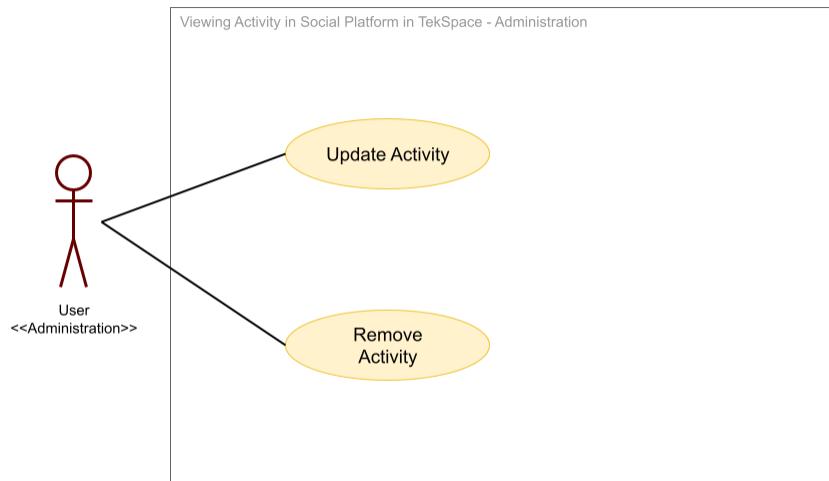
3.2.15. Viewing Social Platform (Web - Administration)



3.2.16. Viewing Interest in Social Platform (Web - Administration)



3.2.17. Viewing Activity in Social Platform (Web - Administration)



3.3 Performance Requirements

The system should load and be usable within 5 seconds. It should also have no immediate delays in updating the interface when user interaction is detected. In the case of opening databases, there are no delays and the operation is performed in less than 3 seconds for opening, sorting, computing, and posting files. Also, when connecting to the database, there is a high probability that there will be a successful connection within 10 seconds or less.

3.4. Design constraints

The system uses the Django framework for the project's development. The software is designed for web application use and is coded in the Python programming language.

3.5. Software system attributes

- Administrability
 - The Teknoloy Ikigai Center (TIC) will manage and control all actions in the system relating to student career guidance and learning.
- Security
 - An account will be provided to every user. Login credentials are required to authenticate users. When login fails, the system prohibits access.
- Learnability
 - The system interface is designed based on TIC's needs and outlined to mainly provide assistance to achieve their goals. The interface is a product of constant consultation and discussion with the TIC administration which also gives them an overview of how the system works.

- Relevance
 - The system will be used to meet the goals and objectives of TIC. It will help monitor the overall progress of TIC in a visible pace.

3.6. Other requirements

The system needs no additional requirements as of the latest version.

4. Appendixes

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