FACULTY OF COMPUTING
UTM Johor Bahru

FACULTY OF COMPUTING

SESSION 2023/2024

SEMESTER 1

SECD2523-03 DATABASE (PANGKALAN DATA)

PHASE 1 - PROJECT PROPOSAL AND PLANNING

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1.0 Introduction

The goal of this project is to provide a user-friendly ticketing system that streamlines the event registration, ticket selection, ticket purchase, and event production processes, allowing organizers and registered users to create their own events. Users will be able to choose events of interest, subscribe to them with ease, select tickets, and complete the purchasing process with ease due to the system. The development of a full-service and accessible ticketing system would greatly improve the event management procedure, offering a simplified and convenient experience to event organizers, ticket buyers, and attendees. The system will help make the event environment more productive and well-organized, which will benefit events of all kinds.

2.0 Background Study

NexScholar is a social platform for students to connect whose main purpose is to organize an event. A "social platform" is an online service or website that facilitates online communication and connections between users. NexScholar gives users access to a virtual environment to make profiles and view events. Features that NexScholar provides are communication, where users can exchange messages, chat, and engage in conversation between them through text. Next is networking, which enables people to make connections with others through mutual acquaintances, affiliations, or shared interests. Besides, there is a collaboration in which students, either undergraduate or graduate, use NexScholar for professional networking and collaboration to interact with clients and colleagues, exchange work-related information, and work together on projects. Other users can discover new information, trends, and content by following other users or topics of interest.

3.0 Problem Statement

Nexscholar allows users to have the capability to access upcoming events and feeds. Presently, only administrators have the authorization to create and publish events and feeds. However, this approach may lead to a potential inconvenience for administrators, as they are required to manually post each event individually. The existing system lacks a mechanism for users to confirm their attendance at events on NexScholar, resulting in a significant challenge for administrators. This gap in functionality prevents administrators from efficiently tracking and managing event participation. The administrator's goal is to implement a user-friendly solution where individuals can easily register for events, effectively reserving their seats. This process should accommodate both free and paid events, allowing users to attend without payment for free events, while facilitating secure payments for seat reservations in paid events.

4.0 Proposed Solutions

There are several problems faced by NexScholar. One of them is the current inconvenience faced by administrators in manually posting each event on NexScholar. To combat this problem, we propose the implementation of a user-friendly segment in NexScholar that allows users to submit their event details. This segment will allow registered users to submit event details for review and approval by administrators. Users will be asked to submit details such as the event title, event description, time and date of the event, location, organizers, event website, and event cost. Upon approval, the event will be published, expanding user accessibility to upcoming events and feeds. This streamlined process will not only alleviate the burden on administrators but also empower users to contribute to the platform's event ecosystem. Additionally, it will foster a more dynamic and engaging user experience within the NexScholar community.

Besides the existing challenge of confirming attendance at events on NexScholar, we propose a comprehensive solution to streamline the registration and seat reservation process. To begin with, we will enhance the user interface to allow individuals to easily select events and view event details. A key addition will be the introduction of a prominent "Book a Seat" button for each event, which will serve as a means for users to confirm their attendance. For paid events, when users click this button, the system will prompt them to make a secure payment through a trusted payment gateway to reserve their seats. Upon successful payment, a reassuring confirmation message will be displayed, providing users with immediate feedback on their seat reservation. Simultaneously, an automated confirmation email will be dispatched to the user, serving as an official record of their booked seat. This email will offer a handy reference for users and add an extra layer of assurance. In the case of free events, users can simply click the "Book a Seat" button without any payment requirement, and the system will proceed to confirm their seat reservation. This comprehensive approach aims to significantly improve the user experience on NexScholar, making event registration and attendance confirmation a seamless and efficient process. Additionally, it will equip administrators with a robust tool to effectively manage event participation, marking a substantial enhancement to the platform's functionality. .This solution seeks to address the current limitations and elevate the overall experience for both users and administrators on NexScholar. If you have any further specifications or require additional details, feel free to let me know.

5.0 Objective

1. To allow the user to create an event and post the feeds.
2. To provide an efficient system that can track and manage the event participation.
3. To design a system that can be easily used by users to register and reserve for the events.

6.0 Scope of the project

Our project's scope is to enhance NexScholar's event management system, ensuring a user-friendly experience for both administrators and users. Presently, only administrators have the ability to create and post events, leading to a manual and potentially inconvenient process. Our aim is to simplify this by allowing all users to easily create and manage their events, subscribe to them effortlessly, and seamlessly select and purchase tickets.

NexScholar, a social platform for student connections and event organization, currently lacks features for users to confirm their attendance at events. This gap poses a significant challenge for administrators in efficiently tracking and managing event participation. In response, our project scope includes implementing a user-friendly solution. This solution will enable individuals to effortlessly register for events and reserve seats, accommodating both free and paid events. This approach seeks to make the event management process smoother for administrators and attendees alike.

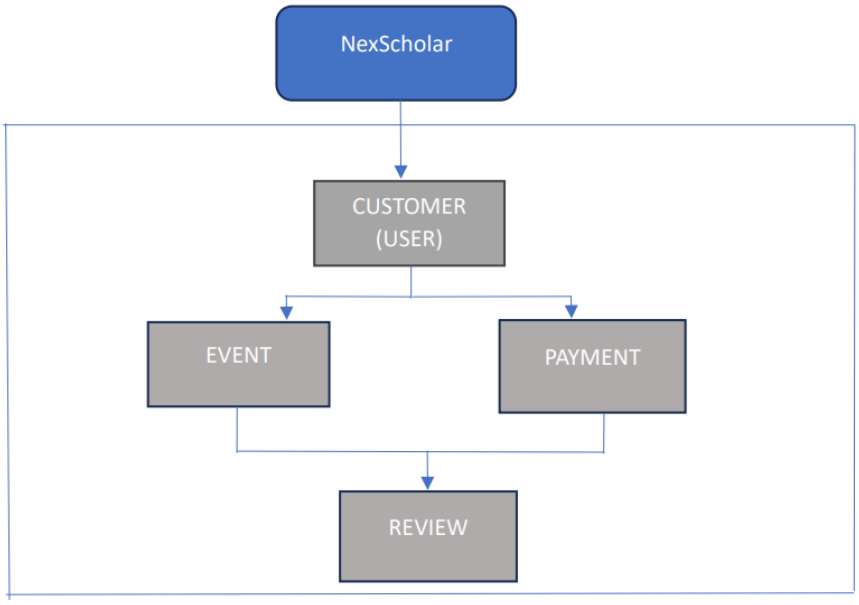
In summary, the project scope is centered around making NexScholar's event system more accessible and user-friendly, addressing current limitations, and enhancing the overall experience for both administrators and users involved in event planning and participation.

7.0 Project planning

7.1 Human Resource

7.1.1 Boundaries of Database Application

The figure below represents the system boundary for the project. The entities inside the box require being considered in our system planning. The major objective of our project is to create a database system that will enable users to create events, buy tickets for events they want to attend, and write reviews of the events.



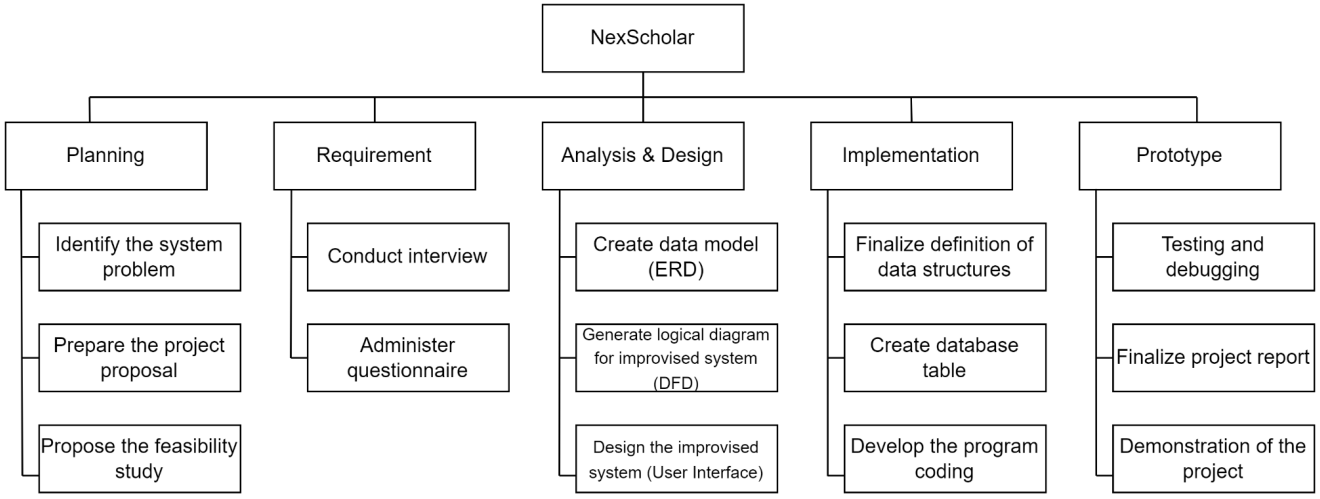
7.1.2 Major Users View

Admin, Student, and Customer are the users. The table below displays the main user viewpoints for each group.

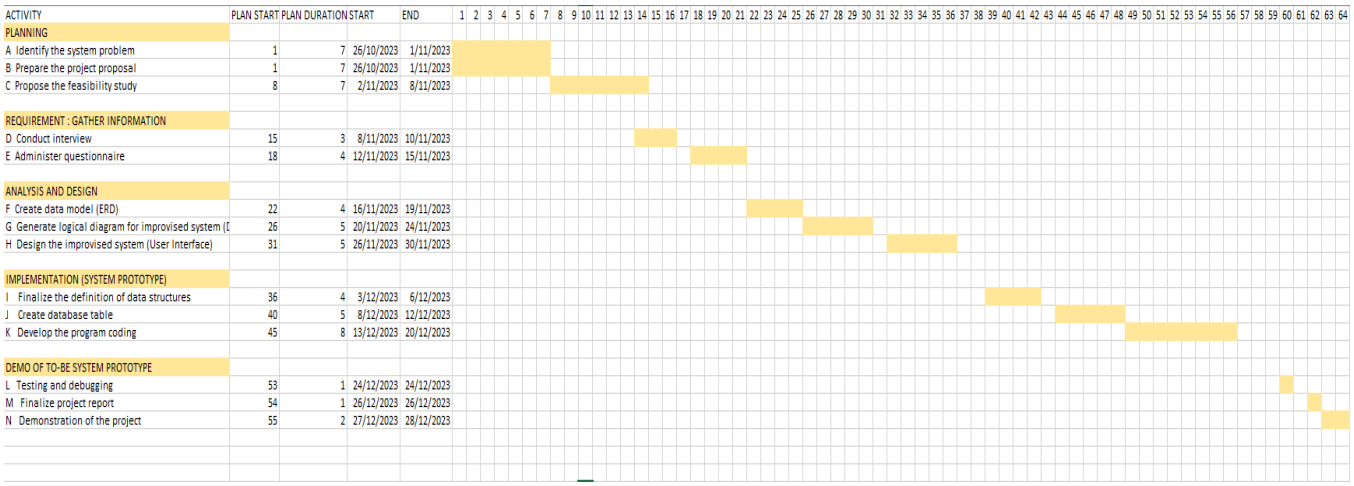
DATA	ACCESS TYPE	ADMIN	STUDENT	CUSTOMER
CUSTOMER (USER)	Maintain Data View Query Report	 x 	 	x x
EVENT	Maintain Data View Query Report	x x x	x x x	x x x
PAYMENT	Maintain Data View Query Report	x x x	x 	x

REVIEW	Maintain Data View Query Report	x x	 x	 x

7.2 Work Breakdown Structure (WBS)



7.3 Gantt Chart



ACTIVITY	PLAN START	PLAN DURATION	START	END
PLANNING				
A Identify the system problem	1	7	26/10/2023	1/11/2023
B Prepare the project proposal	1	7	26/10/2023	1/11/2023
C Propose the feasibility study	8	7	2/11/2023	8/11/2023
REQUIREMENT : GATHER INFORMATION				
D Conduct interview	15	3	8/11/2023	10/11/2023
E Administer questionnaire	18	4	12/11/2023	15/11/2023
ANALYSIS AND DESIGN				
F Create data model (ERD)	22	4	16/11/2023	19/11/2023
G Generate logical diagram for improvised system (D	26	5	20/11/2023	24/11/2023
H Design the improvised system (User Interface)	31	5	26/11/2023	30/11/2023
IMPLEMENTATION (SYSTEM PROTOTYPE)				
I Finalize the definition of data structures	36	4	3/12/2023	6/12/2023
J Create database table	40	5	8/12/2023	12/12/2023
K Develop the program coding	45	8	13/12/2023	20/12/2023
DEMO OF TO-BE SYSTEM PROTOTYPE				
L Testing and debugging	53	1	24/12/2023	24/12/2023
M Finalize project report	54	1	26/12/2023	26/12/2023
N Demonstration of the project	55	2	27/12/2023	28/12/2023

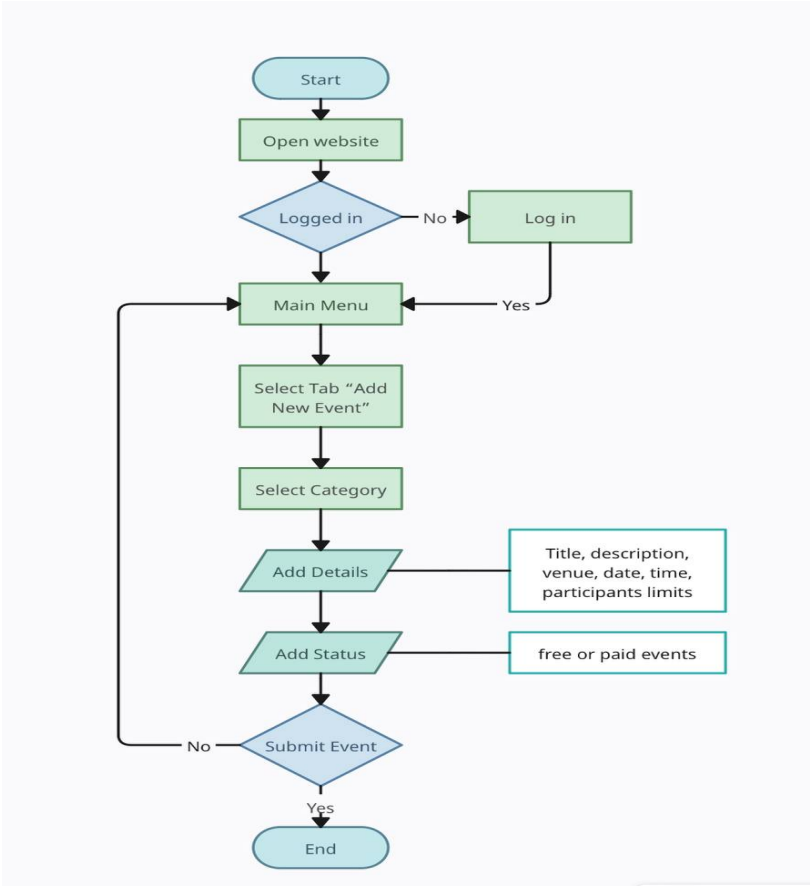
8.0 Requirement Analysis (based from AS-IS analysis)

8.1 Current business process (scenarios, workflow)

Scenario

Ahmad Albab handles the Faculty of Computing's SUSKOM ‘23 events as a director. He wants to tell UTM students more about the events, but he can't seem to find any official platforms that will let him post details of the events. Subsequently, he learned about Nexscholar, a system that provides a useful resource for connecting students to a variety of UTM events. Ahmad is able to offer detailed information on SUSKOM '23 events on this platform, including schedules, places, and any additional relevant details.

Workflow



9.0 Transaction requirement (data entry, data update/delete, data queries)

Data Entry	1. Enter the details of admin's data. 2. Enter the details of user's data. 3. Enter the details of event's data. 4. Enter the details of e-ticket. 5. Enter details of payment.
Data Update/Delete	1. Update/delete the details of an admin. 2. Update/delete the details of a user. 3. Update/delete the details of event. 4. Update/delete the details of e-ticket. 5. Update/delete the details of payment.
Data Queries	Data of queries required by the website admin views Data of queries required by the website user views 1. List the details of participants for each event. 2. Identify the total number of participants for each event. 3. List the name of events that were created based on the creation time. 4. Identify the total e-ticket order. 5. Identify the total number of event's admin for each event. 6. List the details of participants name, id number, email and phone number. 7. List the details of all the e-ticket that have been purchased by the user. 8. Identify the e-ticket type that has been sold. 9. List all the available e-ticket for each event.

10.0 Benefit and Overall Summary of Proposed System

The proposed system for NexScholar brings forth several benefits aimed at enhancing the overall user experience and administrative efficiency. Firstly, the system introduces a simplified event management process. Organizers and users will find it easy to create, submit, and manage events through an intuitive interface. This streamlining of event-related tasks ensures that users can effortlessly engage with the platform, leading to a more dynamic and vibrant community.

Secondly, the system offers flexibility in payment options, accommodating both free and paid events. This versatility ensures that users can attend events without payment barriers for free activities, while secure payment processing enhances the reservation process for paid events. This inclusivity contributes to a more user-friendly environment, attracting a broader audience.

Moreover, the proposed system addresses the current challenge faced by administrators in manually posting each event. By empowering users to submit event details for review and approval, the system not only reduces the workload on administrators but also encourages active participation from the community. This collaborative approach fosters a sense of engagement and ownership among users.

Additionally, the system provides a comprehensive solution for confirming attendance at events. The introduction of a prominent "Book a Seat" button simplifies the registration process. For paid events, the secure payment process ensures a reliable and efficient seat reservation mechanism. This feature not only enhances user satisfaction but also provides administrators with a robust tool for managing event participation.

From a cost perspective, the proposed system is designed for a high start-up cost but ensures minimal maintenance costs in the long run. This strategic investment in reliability and performance aligns with the project's focus on delivering a seamless user experience. The emphasis on functionality and user comfort aims to create a lasting positive impression, attracting and retaining users without regular reliance on guidance or manuals.

In conclusion, the proposed system for NexScholar brings benefits in terms of streamlined event management, flexible payment options, collaborative community engagement, and a strategic cost structure. These advantages collectively contribute to an enhanced platform that is user-friendly, efficient, and poised for long-term success. The benefits outlined in this proposal indicate a positive impact on both users and administrators, ensuring a valuable and reliable solution for NexScholar.

11.0 Summary

The NexScholar initiative envisions a transformative leap in event management through the creation of an elegantly user-centric ticketing system. Currently, the exclusive administrative privilege of event creation poses logistical challenges, necessitating a shift towards enhanced efficiency and user convenience. A notable void exists in the system, as users lack a streamlined method to confirm their attendance, impeding administrators in their quest to seamlessly track and manage event participation. The proposed solution aspires to empower individuals, fostering effortless event registration for both complimentary and paid engagements. This undertaking promises to elevate the overall event experience, harmonizing accessibility and efficiency, thereby redefining the landscape of event organization across diverse spectrums.