DESIGNING THE ARCHITECTURE OF THE SYSTEM

<<Bus Management Application>>

List of **members**

01
Nde Dilan

02
Madick Cesar

03
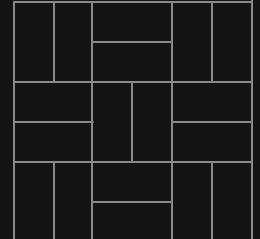Noah Frederic

04
Yann

05
Joshua

01 What's the project's goals and **objectives?**

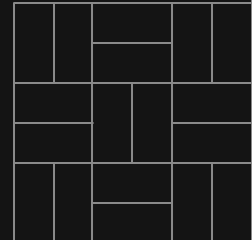Designing an application always start with settting goals and objectives:

- The goal of the project is to design and develop software for managing the bus service at our university.

To accomplish this goal, we have a set of objectives. Initially, we aim to create a comprehensive service subscription system for students, allowing them to easily enroll in the bus service through their preferred channels, such as online payment or cash. As a secondary goal, we intend to enable students and the university to effortlessly locate and track the bus in real-time using the software.

02

Identifying the tasks and activities that need to be completed oin order to complete project's objectives?

To complete those two objectives, we divided them into O5 tasks for the first objective which was < Establish a Complete Service Subscription System for Students > and O7 tasks for the second one which was ‹Enable Real-Time Localization and Tracking of the Bus›.

< Establish a Complete Service Subscription System for Students >

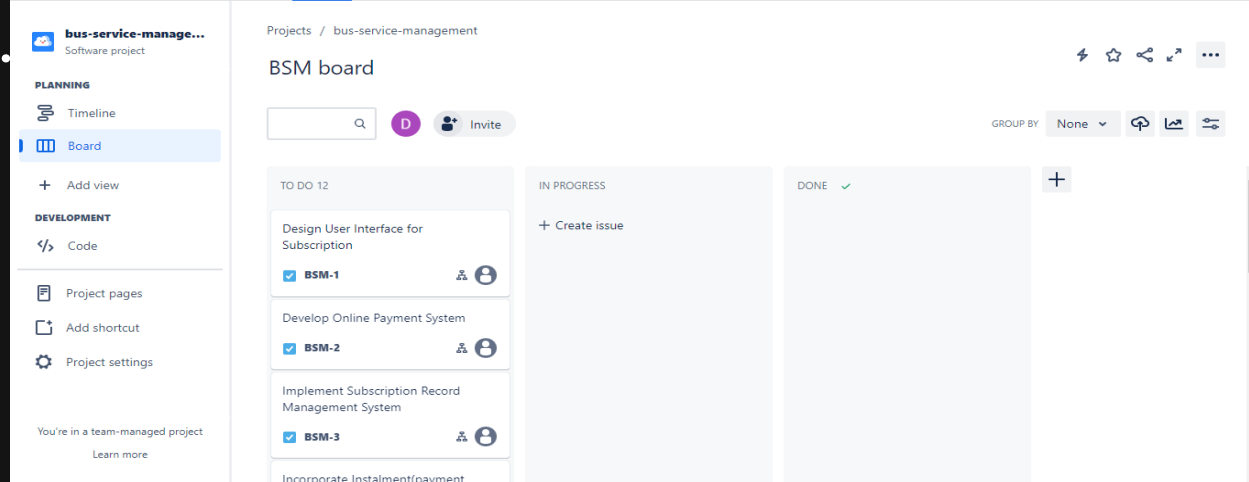| Stages		Week 1	Week 2	Week 3	Week 4
1	December	Design User Interface for Subscription			
2	December		Develop Online Payment System		
3	January		Implement Subscription Record Management System		
4	January			…	

<Enable Real-Time Localization and Tracking of the Bus>.

Stages		Week 1	Week 2	Week 3	Week 4
1	December	Develop Bus Information Management System			
2	December		Create Driver and Conductor Information System		
3	December	Implement Real–Time Bus Tracking System			
4	January			...	

03 Creating a schedule for the tasks and activities.

Every project need a schedule, it's why our team used the **Jira software** and its tools to create our own schedule.

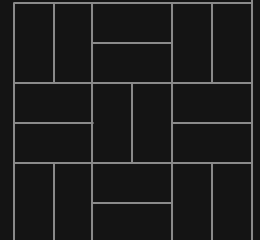Bus Management
System Jira
Workspace

04 Estimating the **time** and **resources** needed to **complete** the project

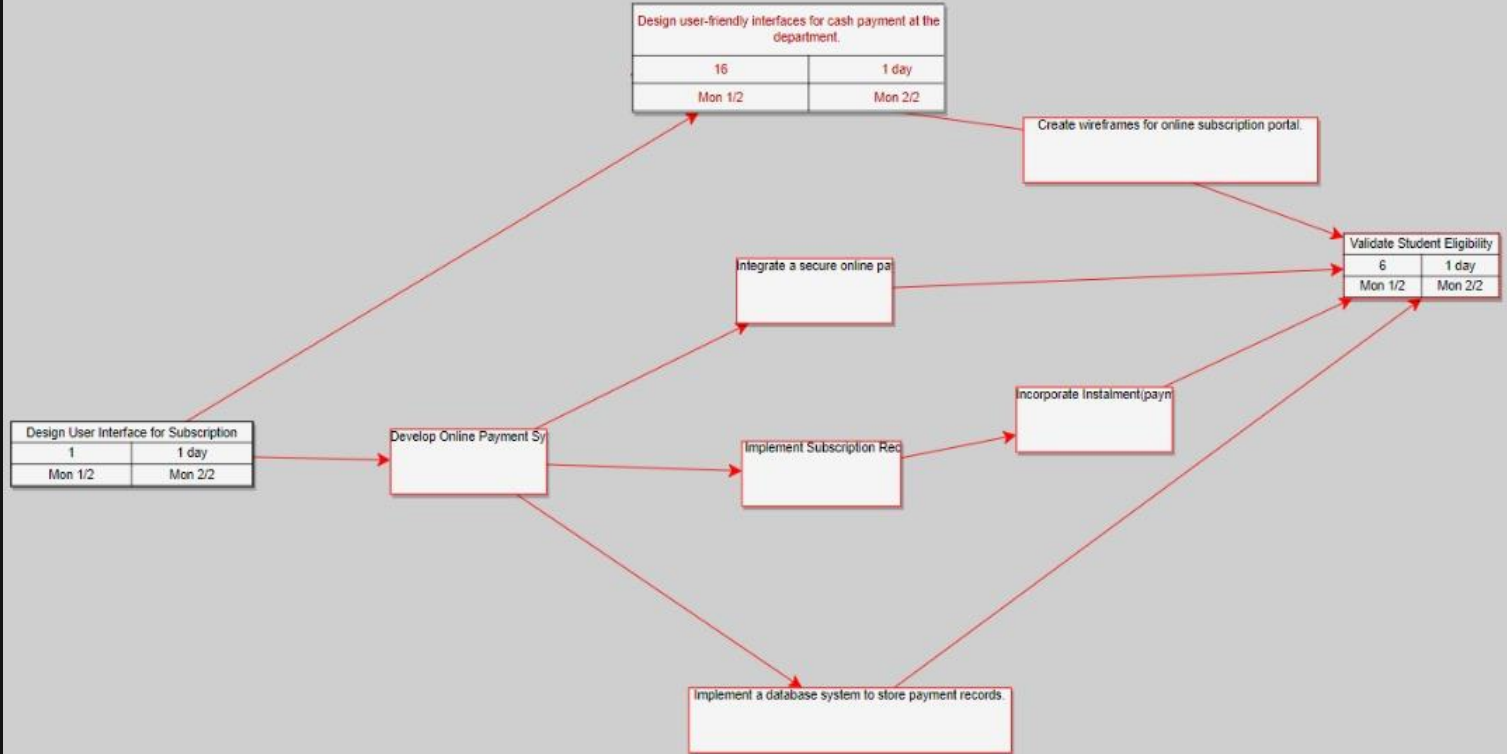To estimate the time and resources needed to complete our project, we used a PERT and a GANT chart.

PERT Chart

Design user-friendly interfaces for cash payment at the department.

16	1 day
Mon 1/2	Mon 2/2

Create wireframes for online subscription portal.

Validate Student Eligibility

6	1 day
Mon 1/2	Mon 2/2

Integrate a secure online pa

Design User Interface for Subscription

1	1 day
Mon 1/2	Mon 2/2

Develop Online Payment Sy

Implement Subscription Re

Incorporate Instalment payn
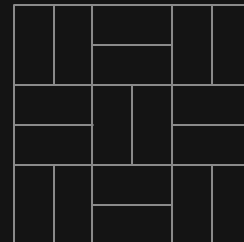
Implement a database system to store payment records.

04

GANT Chart

List of **resources**

The following is the list of our **needed** resources

Name	Description	Unit Price	Quantity	Total Price
Computers	4Gb at least and 2,31Hz	200000	20	4000000
Modem	4G Network , High Speed	20000	10	200000
Scanners	High Quality resolution	45000	15	675000
Chairs	Good quality office chairs	150000	19	2850000
Cables	100 meters long each	50000	10	500000
Total	----------------------------------	465000	74	34410000

So the budget of our project is estimated to _34,410,000 FCFA_

End!

Thanks for your kind attention.