

Student Information System

BCA I Semester

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Introduction

- ▶ A Student Information System (SIS) acts as a central hub for storing and managing all student-related data, including personal details, academic records, attendance, and grades.
- ▶ This eliminates the need for manual record-keeping and improves data organization.
- ▶ The SIS provides a user-friendly interface that allows administrators, teachers to easily access and retrieve information in real-time, ensuring timely updates and decisions.

Problem Statement

- ▶ Inefficient Manual Record-Keeping:
 - ▶ Many educational institutions still rely on manual or paper-based methods to manage student records, leading to inefficiencies, errors, and difficulties in retrieving data when needed.
- ▶ Difficulty in Accessing Student Data:
 - ▶ Administrators, teachers often face challenges in accessing up-to-date student information quickly due to fragmented data sources, leading to delays and miscommunication.

Motivation [FONT-SIZE: 36pts]

- ▶ Streamline Administrative Processes:
 - ▶ Traditional manual methods of managing student data are time-consuming, prone to human error, and inefficient.
 - ▶ The motivation behind the SIS project is to automate and streamline these processes, allowing administrative staff to focus on more value-added tasks.
- ▶ Improve Data Accuracy and Accessibility
 - ▶ Maintaining accurate and up-to-date student records can be challenging without a centralized system.
 - ▶ The SIS aims to provide real-time access to comprehensive student data, ensuring that all stakeholders (students, faculty, administrators) can access reliable information easily.

Objective

- ▶ To store personal details, academic records, grades, and attendance in one system.
- ▶ To automate grade entry, attendance tracking, and report generation.
- ▶ To provide accurate, up-to-date student information.

Business Model [for Final Year Project Only]

- ▶ Revenue Streams:
 - ▶ Subscription-based model: Offer the SIS as a SaaS solution with monthly or yearly subscription fees based on the number of users or size of the institution.
 - ▶ One-time license fee: Charge a one-time fee for the purchase of the software for perpetual use.

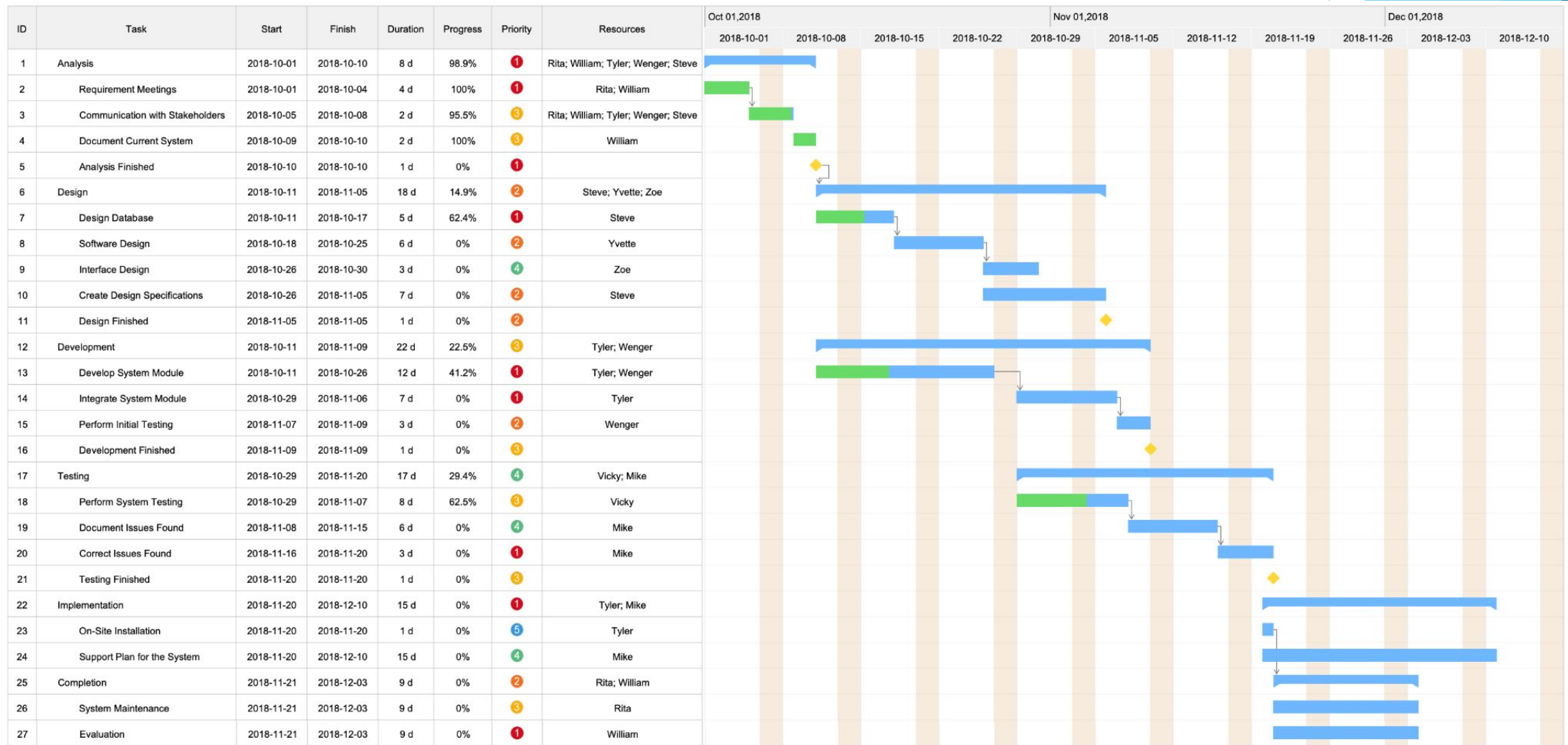
Features [FONT-SIZE: 36pts]

- ▶ Student Information Management
 - ▶ Store and manage student personal details, academic records, and contact information.
- ▶ Grade and Attendance Tracking
 - ▶ Track and record student grades, attendance, and performance over time.
- ▶ Generate detailed reports on student performance, attendance, and grades.
 - ▶ Customizable reporting based on different academic metrics.

Platform/Dev. Environment

- ▶ Programming Language:
 - ▶ C programming
- ▶ Database:
 - ▶ File Handling
- ▶ Development Tools:
 - ▶ Dev-C++, or Visual Studio Code for coding and debugging.
- ▶ Compiler:
 - ▶ GCC (GNU Compiler Collection)
- ▶ Operating System:
 - ▶ Windows

Planned Timeline/Gantt Chart



Conclusion [FONT-SIZE: 36pts]

- ▶ Streamlined Administrative Tasks:
 - ▶ SIS simplifies the management of student data, improving efficiency and reducing manual effort.
- ▶ Improved Data Accuracy:
 - ▶ Ensures real-time access to accurate student information, aiding in better decision-making.

Questions/Queries...