**Appendix 5: SYNOPSIS**

**Synopsis**

for

**Campus Placer**

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Submitted to

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**ST ALOYSIUS INSTITUTE OF MANAGEMENT AND INFORMATION TECHNOLOGY (AIMIT)**

**ST ALOYSIUS COLLEGE (AUTONOMOUS)**

**MANGALORE, KARNATAKA**

1. **Title of the Project**

**Campus Placer** - A Modern Solution for College Placement.

1. **Statement of the Problem**

The traditional process of managing campus placements in colleges often involves cumbersome paperwork, manual job postings, and inefficient communication channels. This leads to delays, errors, and miscommunication between students, faculty, and recruiters. Hence, there's a need for a streamlined, digital solution that can automate and optimize the entire placement process.

1. **Why this particular topic chosen?**

The project aims to address the inefficiencies in the campus placement process by leveraging modern technology. By developing a comprehensive platform that facilitates job postings, application management, and communication, the project seeks to enhance the overall efficiency and effectiveness of college placements. This topic is chosen to bridge the gap between traditional placement methods and contemporary technological advancements, benefiting both students and placement officers.

1. **Objective and Scope**

The objective of this project is to create a user-friendly platform using the MERN stack, streamlining campus placement processes for students, administrators, HODs, and placement officers. Students will easily find and apply for jobs, while administrators manage user accounts and data. HODs gain insights into departmental trends, and placement officers efficiently handle job postings and communication. We'll ensure data security with MongoDB and prioritize accessibility and responsiveness across devices.

1. **Methodology**

The project will employ an agile development methodology, allowing for iterative development and continuous feedback incorporation. Agile methodologies offer flexibility and adaptability, crucial for addressing evolving requirements in a dynamic environment. By utilizing agile principles, the project aims to deliver a high-quality solution that meets stakeholders' needs effectively.

1. **Process Description**

**Student Module:** The Student Module allows students to view and apply for job opportunities, track application statuses, and manage their profiles.

**Admin Module:** The Admin Module enables administrators to manage user accounts (students, HODs, placement officers), job categories, and system activities.

**HOD Module:** The HOD Module provides department heads with insights into student profiles, job applications, and placement trends within their departments.

**Placement Officer Module:** The Placement Officer Module empowers placement officers to create and manage job postings, review applications, and communicate job-related updates to students.

1. **Resources and Limitations**

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| --- | --- | --- | --- |
| **Hardware Requirements** | | **Software Requirements** | |
| **Processor** | I3 processor | **Operating System** | Windows 10 or higher |
| **Ram** | 8 GB | **Front End** | HTML, React, Material UI |
| **Hard Disk** | 500 GB Space | **Backend** | MongoDB |
| **Monitor** | VGA Color (256) | **IDE interface used** | VS Code |
| **Network** | Stable internet connection | **Web Server** | Node js or Express |

Limitations may include constraints on data migration, scalability concerns, and the need for ongoing maintenance and support.

1. **Testing Technologies used**

The system will undergo rigorous testing using a combination of black-box and white-box testing techniques. This includes unit testing, system integration testing, and user interface testing. Test plans will outline the nature, scope, and timing of various tests to ensure the system's reliability and functionality.

1. **Conclusion**

The "Campus Placer" project built on the MERN stack aims to optimize campus placement processes for our college community. This system offers streamlined job application experiences for students, efficient data organization for administrators, valuable insights for HODs, and improved coordination for placement officers. Our focus on data security, scalability, and user experience ensures a sustainable and impactful solution. Moving forward, we anticipate further enhancements to enrich the campus placement experience and support student career development.