

Deployment Plan
Project Name: College Management Portal

1. Introduction

This deployment plan outlines the steps, resources, and responsibilities required to successfully deploy the College Management Portal project into a production environment.

2. Deployment Objectives

- Ensure the application is installed and configured correctly.
- Minimize downtime and disruption to users.
- Ensure rollback steps are defined in case of failure.

3. Deployment Scope

- Frontend: ReactJS-based web interface
- Backend: Node.js with MongoDB
- Hosting: Deployed on AWS EC2 instance
- Database: MongoDB

4. Prerequisites

- All code must be tested and approved.
- All environment variables must be set.
- MongoDB cluster and EC2 server must be active.

5. Deployment Steps

Step	Description	Responsible
1	Final code push to GitHub <code>main</code> branch	Developer
2	Pull latest code onto EC2 instance	DevOps
3	Install dependencies using <code>npm install</code>	DevOps
4	Configure <code>.env</code> file	DevOps
5	Start backend and frontend servers	DevOps
6	Test basic functionalities	QA

7. Post-Deployment

- Send deployment confirmation email to stakeholders.
- Monitor system logs and performance for 24 hours.
- Collect user feedback for the next release.