## **1. SYNOPSIS**

## 1.1 Title of the Project

## Building a Social Media Web Application using the MERN Stack

## 1.2 Introduction

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## Social media platforms have become an integral part of our daily lives. The ability to connect with people from different parts of the world has revolutionized the way we interact and communicate. In this project, we aim to develop a social media web application using the MERN (MongoDB, Express.js, React.js, Node.js) stack.

## 1.3 Objective

The primary objective of the project is to build a web application that allows users to create accounts, post updates, and interact with other users. Specifically, the following features will be implemented:

User authentication: Users will be required to create accounts and log in to access the platform's features.

User profiles: Users will be able to create and manage their profiles, which will contain their personal information and activity history.

Post creation: Users will be able to create posts that can include text, images, and videos.

Newsfeed: Users will be able to view posts from other users in a newsfeed format.

Post interactions: Users will be able to like, comment, and share posts created by other users.

Methodology:

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## 1.4 Feasibility Study

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## Market research: We will conduct a survey and analyze the results to determine the potential market demand for a social media web application.

## Technical analysis: We will assess the technical feasibility of the project by examining the requirements and determining if they can be met using the MERN stack.

## Financial analysis: We will evaluate the financial feasibility of the project by estimating the costs and potential revenue.

## Operational analysis: We will assess the operational feasibility of the project by examining the resources required and the potential risks and challenges.

## 1.5 Structure of the program

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## 1.5.1 Analysis

## A blog is a frequently updated online personal journal or diary. It is a place to express yourself to the world. A place to share your thoughts and your passions. Really, it’s anything you want it to be. For our purposes we’ll say that a blog is your own website that you are going to update on an ongoing basis. Blog is a short form for the word weblog and the two words are used interchangeably. Blogs range from the personal to the political, and can focus on one narrow subject or a whole range of subjects. It can also play an important role in student’s life. It can help in the promotion of critical and analytical thinking, increased access and exposure to quality content and a combination of solitary and social interactions with peers

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## 1.5.2 Module Description

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## Home:

## Home is the homepage or main page. It displays all the post information in cards.

## 

## About:

## About gives a description of what this web application does.

## Contact:

## Gives the information about developer and provide some links.

## Compose:

## Here user can compose or write whatever the topic is and then simply post it.

* Update:

Here user can update the written articles

* Delete:

Admin using valid credentials can delete the post/ articles.

## 1.6 Data Structure

## Not Applicable.

## 

## 1.7 Description

## BLOG WEBSITE is about designing and developing simple blog using nodejs , expressjs and mongodb. Here user can use options like compose and edit. This project is completely designed and developed over common features of nodejs, expressjs and mongodb.

## 

## 1.8 Future Scope

## This project was developed to fulfil the requirement of common blogging platform for educational purposes. However, there are lots of scope to improve the performance of the Online Blogging System in the area of user interface, database performance, and query processing time etc.

* Possibility of account creation.
* Account settings.
* Adding images and videos.
* Browse a topic on specific category.
* Adding comments to posts.