

# **DBMS Project Final Report**

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## Abstract:

*Social Network* is a website with its front-end developed using HTML and CSS and its backend uses PHP to provide a social networking experience for users. The website seeks to simulate a social networking website like Facebook on a local platform. It enables users to connect with other users around the world and to share post, message etc.

## Tools/APIs used:

1. MySQL – core database management system
2. JavaScript – script for the front-end
3. HTML – pages for front-end
4. CSS - for the UI
5. PHP- for the backend development

## Tools/APIs that could have been used:

1. **React JS** : A JavaScript library for building user interfaces
  - a. React makes it painless to create interactive UIs. Design simple views for each state in your application, and React will efficiently update and render just the right components when your data changes.
  - b. React has encapsulated components that manage their own state, then compose them to make complex UIs.
2. **Redux**: An open-source JavaScript library for managing application state.
  - a. Redux helps you write applications that behave consistently, run in different environments (client, server, and native), and are easy to test.
  - b. Centralizing your application's state and logic enables powerful capabilities like undo/redo, state persistence, and much more.
3. **MongoDB**: A document database with the scalability and flexibility that you want with the querying and indexing that you need.
  - a. MongoDB stores data in flexible, JSON-like documents, meaning fields can vary from document to document and data structure can be changed over time
  - b. The document model maps to the objects in your application code, making data easy to work with.
  - c. Ad hoc queries, indexing, and real time aggregation provide powerful ways to access and analyze your data.