

SE 216 – SOFTWARE PROJECT MANAGEMENT
PROJECT NEEDS DOCUMENT

PROJECT NAME: DriveEco

GROUP NUMBER and MEMBERS: Bade Balcı, Elif Göksu Sümer, Deniz Yetiş,
Selin Gilgil, Fatih Anamaslı, Yunus Erdem Gökdağ

#	SOFTWARE NEEDS	DESCRIPTION
	Server-Based Database	To store users' posts, comments, likes, followed users, and other data, a server-based database is necessary. This database is required to securely store and access users' data.
	User Interface (UI) and User Experience (UX) Design	The user interface will enable users to navigate within the application, view content, and interact. A good user experience design aims to make it easy for users to use the application and quickly accomplish the functions they desire.
	User Management and Authentication	A user management and authentication system is necessary for users to create accounts, log in, reset their passwords, and manage their accounts. It will include username and password-based authentication and an authentication service.
	API (Application Programming Interface)	An API is required to facilitate communication between the application and the server. The API enables users to interact with the server, allowing them to retrieve and send their posts, comments, and likes.
	Real-Time Notifications	Users should be notified of new appointments, appointment acceptances and rejections by sending real-time notifications. This is usually achieved using a push notification service.
	Data Analytics and Monitoring	A data analytics and monitoring system is required to track user interactions, understand user behavior, and measure the application's performance.
	Google Maps	In the application, users will access real-time location data and store the retrieved data.
	Project Management Tool	We will use it to advance the development process of the project in the most effective way and to predict possible problems. ASANA is considered tool.
	Programing Languages & Libraries	JavaScript will be used for the development, React library will be implemented for the front-end, and Node.js will be utilized for the backend.

#	HARDWARE NEEDS	DESCRIPTION
	Servers	A sufficient number and power of servers are needed to manage push notifications, store the collected data and use the grouping algorithm used. These servers will be used for database operations, notification systems and other systems.
	Computers	The systems we will use to develop the application.

SE 216 – SOFTWARE PROJECT MANAGEMENT
PROJECT NEEDS DOCUMENT

#	SUPPORT NEEDS	DESCRIPTION
	Maintain Supports	Adapting to the rapid advancements in technology and the swift development of mobile devices is essential. Therefore, it is necessary to stay updated with the developments and make the required improvements regularly.
	Security Support	It is necessary to protect the data related to the application where we collect various information such as the user's address data and the tools they use.
	Data Backup and Recovery	To prevent data loss, it is necessary to develop and implement regular data backup and recovery strategies without any possible loss. The support team manages these processes and performs data recovery operations when it is necessary.
	Performance and Scalability Issues	Large-scale software projects often encounter performance and scalability issues. The support team must monitor the system performance, identify problems, and implement necessary improvements or changes.