

**SE 216 – SOFTWARE PROJECT MANAGEMENT**  
**PROJECT NEEDS DOCUMENT**

**PROJECT NAME: LIKE**

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#	SOFTWARE NEEDS	DESCRIPTION
	Programing language & Framework	We chose the Python language for our project. Python enabled us to develop our project quickly and efficiently with its extensive library support and readable syntax.
	Database Management System	We needed a database to store users' profiles, the movies they watched, the books they read, the meals they ate, etc. We chose to use Apache Cassandra for this purpose.
	Integrated Development Environment (IDE)	There are many IDEs available today such as PyCharm, VS Code. We needed an IDE to write code. For ease of use, we preferred to use VS Code.
	Version Control	We need a version control system to store, track, and collaborate on our project code. Git is the most commonly used tool for this purpose. We store our project on platforms like GitHub or GitLab and upload the updated version regularly.
	APIs	We need to integrate APIs to retrieve movie data, music recommendations, book information, and recipes. For example, we'll use The Movie Database (TMDb) API for movie data, the Spotify API for music data, and the Spoonacular API for recipes.
	User Interface (UI) Design	We plan to develop a user-friendly interface design so that users can easily interact with our application. For this purpose, we prefer design tools like AdobeXD. Platform Independence and better user interface for users, we chose AdobeXD.
	Server Hosting	We will use a web server to host our application. We may use cloud servers such as Google Cloud Platform or Microsoft Azure, or shared hosting providers.

#	HARDWARE NEEDS	DESCRIPTION
	Computers or Mobile Devices	We need suitable computers or mobile devices for project development and testing. Accessing multiple devices during the development process is important.
	Test Devices	We need test devices with different brands and models to ensure that our project works correctly on mobile devices. For example, devices ranging from small-screen smartphones to large-screen tablets or computers with various screen sizes. In particular, it's important to check whether the application runs quickly and stably on older or low-end. In addition,

		Different iOS versions like iOS 12 and iOS 13, or different Android versions like Android 9 and Android 10.
	Network Equipment	Having a reliable network infrastructure is important for project development and testing. This may include internet connection, routers, switches, and other network equipment. For example Firewall devices can be used as well.
	Storage Devices	We need storage devices to store and backup the data used during the project development process. We will use External Hard Drives, Cloud Storage Services and USB Flash Drives.
	Additional Equipment	Additional equipment such as mice, keyboards, software licenses, headphones, cameras, and microphones may vary depending on the project requirements and the working style of the team.
	Server	We will use a database management system to store, analyze, and provide suitable recommendations based on users' preferences. We will use workstations with Intel Core i7 or higher processors.

#	SUPPORT NEEDS	DESCRIPTION
	Technical Support	There may be troubleshooting software bugs, resolving compatibility issues, or providing guidance on configuration. So we need to address the technical issues when we encounter them.
	Testing Support	We need to test while we are developing the project so, testing support means checking the software as we build it to make sure it works well and meets our quality standards. This involves trying out different parts of the software, looking for any problems, and letting the team know if we find any issues.
	Education and Academic Resources	We need different views in the project so we collaborate with universities. They provide access to research projects through interns and graduates. For example, a university can offer internship opportunities to students as part of a collaboration with our project.