SE 216 – SOFTWARE PROJECT MANAGEMENT
PROJECT NEEDS DOCUMENT

PROJECT NAME: MallTrails

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#	SOFTWARE NEEDS	DESCRIPTION
1	IntelliJ IDEA	IntelliJ IDEA is an integrated development environment (IDE) that provides set of tools and features for developing software applications. It supports various programming languages, including Java. We will use IntelliJ IDEA as our primary IDE for developing the mall navigation app.
2	Android	Android is a mobile operating system developed by Google that is widely used on smartphones and tablets. As we plan to develop an Android version of the mall navigation app, we will need the Android Software Development Kit (SDK).
3	Figma	Figma is a design tool that we can use to create the visual layout and design of the mall navigation app. It allows us to collaborate with team members and create user-friendly designs that enhance the user experience.
4	Java SDK	Java SDK will provide us with the tools we need to develop and test our mall navigation app in the Java programming language. It includes tools for writing, testing, and debugging Java applications, as well as a Java Virtual Machine (JVM) that allows our app to run on different platforms.
5	Firebase	We will use Firebase as our cloud-based database solution for the app. Firebase's Realtime Database will allow us to store and retrieve data related to the mall, such as store information.
6	Git (Version Control System)	Git is the version control system we will use to manage and track changes to our app's source code. It will allow us to work collaboratively on the project, keep track of changes made by each team member, and revert to previous versions of code if needed.
7	Google Maps API	Google Maps API is a mapping and location-based service provided by Google that allows us to embed maps and location services into our application. With Google Maps API, we can integrate features such as search, directions, and location tracking into our applications.

#	HARDWARE NEEDS	DESCRIPTION
1	Phones	A mobile phone is a crucial hardware requirement for developing the mobile app. It is essential to have a smartphone or multiple smartphones for testing and debugging the app on real devices. The phones have android operating system .we need phones with different screen sizes to ensure compatibility and a flawless user experience across different devices
2	PC/Laptop	A PC or laptop is the primary hardware requirement for developing the mall navigation app. It should have sufficient processing power, RAM, and storage to run the necessary software tools and compile the app code.
3	All-in-One Printer	An all-in-one printer is a useful hardware requirement for developing the mall navigation app. It can be used for printing important documents related to the project, such as design specifications, user feedback reports, and progress updates. Additionally, it can be used for scanning physical documents and integrating them into the project management system.
4	PC Input Devices (Mouse, Keyboard, Microphone, etc.)	These are essential hardware tools that we will need for developing the application. Mouse and keyboard are essential for coding and testing the application. The microphone is necessary if we need to record audio or conduct virtual meetings with team members or stakeholders.
5	Tablet	A tablet can serve as a secondary device for testing and debugging the app on a portable platform, providing insights into the user experience on bigger screens. It can also be used for presenting and sharing design, as well as accessing project management tools and communication platforms on the go.
6	PC Output Devices (Monitors, Speakers, etc.)	Monitors provide us with a visual interface for working with the code and design application graphics. Speakers and headphones are necessary for testing the app's audio capabilities, such as sound effects, background music, or voice prompts.

#	SUPPORT NEEDS	DESCRIPTION
1	JetBrains Support Team (IntelliJ IDEA)	As we are using IntelliJ IDEA for app development, JetBrains Support Team can help us with any technical issues, bugs, or errors we encounter while using their software.
2	Microsoft Support Team (Office, Windows)	We are developing the mall navigation app on Microsoft's platforms, such as Windows and we also use Office for documentation, so MS support team can help us with our technical issues or questions related to using their products.
3	Investors	Investors can provide financial and strategic support for the mall navigation app development. They can help fund the project, offer guidance, and connect us with other resources and networks that can help us grow our business.
4	Firebase Support Team	Firebase's support team can help us with any technical issues or questions related to integrating Firebase services into our application.
5	Technical Writers	Technical writers can help us create documentation and user guides for the mall navigation app. They can write clear instructions and explain complex technical concepts in simple terms, making it easier for users to understand and use the app.
6	Marketing Experts	Marketing experts can help us create a marketing strategy for the mall navigation app and promote it to potential users. They can conduct market research and develop a social media and advertising campaign to increase app visibility and downloads.
7	User Experience (UX) Designers	UX designers can help us create a user-friendly interface for the app. They can conduct user research, create prototypes, and provide feedback and recommendations to optimize the app's user experience.