SE 216 – SOFTWARE PROJECT MANAGEMENT
SOFTWARE PROCESS MODEL DOCUMENT

PROJECT NAME: **MallTrails**

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#	NECESSARY NEEDS FROM THE ORGANIZATIONAL PROCESS
1	Continuous feedback and iteration: The development team needs to receive continuous feedback from stakeholders and end-users to ensure the app meets their needs.
2	Continuous improvement: App should always be improving to meet user needs and stay competitive. Process model that is used for developing app should emphasize continuous improvement through regular adjustments to the product requirements.
3	Easy maintenance: Designing the app with easy maintenance in mind is essential for its long-term success. This includes providing a user-friendly system for reporting issues, making updates easy to implement, and ensuring that the app is easily maintainable.
4	User-focused approach in the development of the mall navigation app: Using user stories for system specification is a necessary need in development process. By creating user stories, the development team can better understand the needs and desires of the app's users, which can guide the development of the app's features and functionalities.
5	Risk management: Developing a mall navigation app poses several risks, such as technical issues, changing market trends, and security concerns. Risk management is necessary to identify, assess, and mitigate potential risks regularly. Mitigation strategies can include avoiding the risk, reducing its likelihood or impact, transferring it to a third party, or accepting the risk with a plan to manage it.
6	User engagement testing allows organizations to gather feedback from users and make adjustments to the product based on that feedback. This helps to ensure that the product meets the needs and expectations of its intended audience.
7	To ensure that the mall navigation app is developed within the given timeframe, the development team needs to prioritize features and plan tasks. Prioritization involves identifying and ranking features according to their importance.

8	Incremental delivery: An effective mall navigation app may require incremental delivery of features to end-users.
#	**UNNECESSARY NEEDS FROM THE ORGANIZATIONAL PROCESS**
1	Excessive testing: While testing is an important part of app development, excessive testing can delay the release of the app and lead to increased costs.
2	Overplanning and excessive documentation can obstruct the development process, causing delays, wasting time and resources, and preventing the team from making headway.
3	Micromanagement: Micromanaging the development team can hinder creativity and productivity and can lead to frustration and burnout among team members.
4	Over-engineering: Over-engineering or building complex features that are not essential to the app's core functionality can increase development time and cost without providing significant value to users.
5	Insufficient communication among team members can result in misunderstandings, delays, and mistakes in the development process. Therefore, it's crucial to establish effective communication channels and conduct regular check-ins to ensure that everyone is in sync.
6	Obsession with details: Excessive focus on achieving perfection and getting caught up in minor details can hinder the development process, leading to delays and impacting the timely delivery of a functional product by the team.
7	inflexible project management: Being too rigid in project management can prevent the team from adapting to changes in requirements or unexpected challenges. It's important to have a flexible project management approach that allows for adjustments to be made as needed to keep the project on track and ensure a successful outcome.

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SOFTWARE PROCESS NAME: **Agile process model (framework: Scrum)**

SOFTWARE PROCESS DESCRIPTION:

Agile Scrum is a way to build software that emphasizes teamwork, communication, and being adaptable. Instead of planning everything out at the beginning, Agile Scrum breaks the work into smaller parts called sprints, which are usually one to four weeks long. During each sprint, the team works on finishing a small piece of the software.

The team has people with different skills, like programmers and designers, who work together to finish each sprint. The person who decides what needs to be done is called the product owner, and they make sure the team is building things that are important. The scrum master is like a coach who helps the team stay organized and fix problems.

Each day during a sprint, the team has a short meeting to talk about what they did the day before, what they plan to do that day, and if they need help with anything. This helps the team stay on track and know what everyone else is doing.

At the end of each sprint, the team has something new that works, and they can show it to other people. This helps make sure the team is building the right thing and that the software is getting better each time.

Agile Scrum is good because it helps teams work better together and be more flexible. By breaking the work into smaller parts, the team can get things done faster and make changes more easily.

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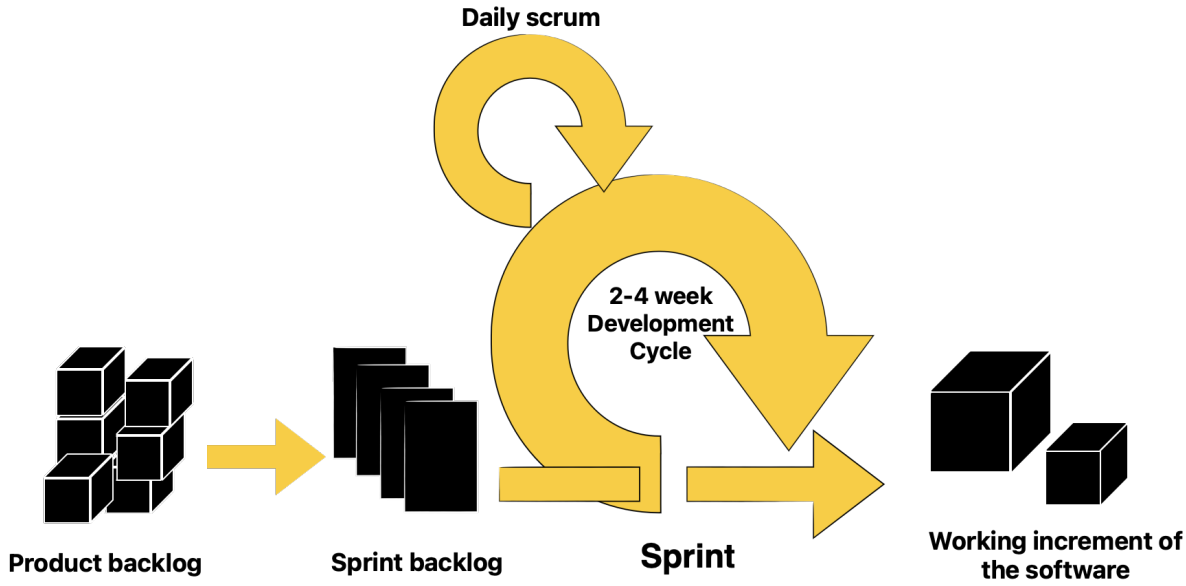
SOFTWARE PROCESS MODEL:



Above Diagram is made by our team using “Freeform” app .

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REASONS TO CHOOSE THIS MODEL:

1. Faster Time-to-Market: Agile methodology allows for faster development cycles, which means that the mall navigation app can be delivered to the market more quickly. This is particularly important in today's fast-paced and competitive business environment.
2. Increased Transparency: Scrum framework promotes transparency by providing regular updates on the progress of the project. This enables the development team to identify and resolve any issues or bottlenecks in a timely manner.
3. Flexibility to Change: Agile methodology allows for changes to be made throughout the development process. This means that if the requirements or priorities of the mall navigation app change, the development team can easily adjust the project scope and deliverables.
4. Higher Quality: With Agile methodology, testing is an ongoing process throughout the development lifecycle. This helps to ensure that the mall navigation app is of high quality and meets the needs of its users.

Overall, Agile process model with Scrum framework provides a collaborative, flexible, and iterative approach to software development, which is well-suited for developing a mall navigation app.