

SE 216 – SOFTWARE PROJECT MANAGEMENT
SOFTWARE PROCESS MODEL DOCUMENT

PROJECT NAME: Servicify

GROUP MEMBERS: Ege Sezak, Yasin Kızıltaş, Alperen Demirezen, Barış Can Ceylan, Buğra Yurtsever

#	NECESSARY NEEDS FROM THE ORGANIZATIONAL PROCESS
1	Having daily meetings should be held to facilitate group discussion.
2	The process must be easily adaptable to changing requirements. There will always be changes during the process, it will be nice to make it adaptable.
3	It is crucial to discover an error in the process immediately when it occurs. A small error might lead to having a bigger error if not fixed in time.
4	The project should be divided into smaller tasks to aid in development. Simpler the project is, the faster the process will be.
5	Previous increments should be considered to find potential problems. It is likely to see the same problems in the future so previous increments can help us.
6	Collaboration and accountability should be encouraged among team members. It is important to pay attention to the team's motivation.
7	Increments of the product should incorporate customer feedback throughout the development process.
8	Fixing mistakes should cost minimal time and cost. If fixing problems takes too much time and money, it will jeopardize the future of the project.

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SOFTWARE PROCESS NAME: SCRUM

SOFTWARE PROCESS DESCRIPTION:

The Scrum software development process is an iterative and incremental agile framework designed to deliver high-value software in a flexible and adaptive manner. Scrum fosters collaboration, transparency, and continuous improvement within cross-functional teams. Since scrum is a framework, hence it can be modified. This allows the team to create a productive environment. There are several roles such as product owner, scrum master and developers.

SOFTWARE PROCESS MODEL:

Our project, unifying several services under one roof is quite a large undertaking. This makes it easy to fail in the event that the team loses focus during development. With scrum, we can divide the difficult tasks of this project into smaller pieces making the team motivated to finish the project efficiently.

The sprints:

1. Login/sign up system for service providers. (2 weeks)
2. Login/sign up system for users. (1 week)
3. Database design. (2 weeks)
4. Framework for general service providers/markets. (2 weeks)
5. Framework for clothing stores. (1 week)
6. Framework for restaurants. (2 weeks)
7. Implementing the user rating system. (1 week)
8. Payment system. (1 week)
9. General UI design. (3 weeks)
10. Implementing security features. (2 weeks)

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REASONS TO CHOOSE THIS MODEL:

Scrum's core principles enable the team and stakeholders to constantly see the status of the work. This helps the team make better decisions and reduce risks. In startups like ours, it is imperative that we do not make any mistakes. Since the smallest mistake can bankrupt us. Sprints are essential for scrum. Each Sprint aims to increase value. This enables continuous improvement of the product and faster delivery to customers and stakeholders. E-commerce is a competitive market and it is important to follow new trends and adapt to the changing environment. Scrum provides the ability to adapt quickly to changing requirements making it ideal for our use case. With feedback from the stakeholders, the team constantly learns and improves while delivering the product. Scrum encourages the creation of small, cross-functional teams. Such teams often work more efficiently and produce more creative solutions, and the absence of multi-layered hierarchies alleviate management overhead which speeds up the development. To conclude, scrum is a versatile framework that aids our team to make better decisions and decrease the risk of fatal mistakes, all the while making our project more flexible to changing requirements of the industry. These advantages show that Scrum provides more effective business process management for our organization. Scrum offers excellent solutions to achieve our goals, especially in complex and rapidly changing projects like ours.