Social Stuff SoFa Project

Social Media privacy, like never seen before.

Project plan for Social Stuff.

Contractor: Jörn Neumeyer

Client:

Company:Gedak GmbhLocation:Kempen, GermanyContact person:Gerhard Bongardt

Function: Founder

Report:

Title report:Project Management Plan – Social StuffPeriod:September 02 2020 – January 15 2021

Date: 25-09-2020

Management Summary (Dave)

The joint collaboration between: Gedak Gmbh, Social Stuff and the SoFa Fontys students is resulting in to a project sequence. The final goal is providing an implementation of an encrypted chat platform which provides privacy for its users by providing a decentralized structure in which anonymity can be guaranteed.

This project is first in the complete project sequence. This means that we have to do a lot of analysis to understand and determine how the solution will look like. This especially goes for the encryption techniques. The current project sequence is mainly focused on providing a working prototype and providing thorough documentation of said prototype.

As this project's affinity is very close to some of the Fontys students working on this project, we will have an excellent starting point for us to provide documentation which will prove invaluable for future iterations of the project. As this project is part of sequence, it is important to determine what the scope and justification of this iteration will be. The project's scope & justification will be discussed in this document.

Table of Contents

Management Summary	Fehler! Textmarke nicht definiert.
1. Introduction	Fehler! Textmarke nicht definiert.
2. Swingby	Fehler! Textmarke nicht definiert.
3. Project justification	Fehler! Textmarke nicht definiert.
3.1 Project objectives	Fehler! Textmarke nicht definiert.
3.2 Project requirements &	resources Fehler! Textmarke nicht definiert.
3.3 Project scope	Fehler! Textmarke nicht definiert.
4 Project products	Fehler! Textmarke nicht definiert.
4.1 Customer quality expec	tations Fehler! Textmarke nicht definiert.
4.2 Customer acceptance of	riteria Fehler! Textmarke nicht definiert.
4.3 Product opportunities .	Fehler! Textmarke nicht definiert.
5 Project controls	Fehler! Textmarke nicht definiert.
5.1 Stakeholders managem	entFehler! Textmarke nicht definiert.
5.2 Risk management	Fehler! Textmarke nicht definiert.
5.3 Change management	Fehler! Textmarke nicht definiert.
5.4 Quality management	Fehler! Textmarke nicht definiert.
6 Project planning	Fehler! Textmarke nicht definiert.
6.1 Activities	Fehler! Textmarke nicht definiert.
6.2 Events	Fehler! Textmarke nicht definiert.
7 Project methodology	Fehler! Textmarke nicht definiert.
7.1 Scrum/Agile	Fehler! Textmarke nicht definiert.
7.2 Scrum board	Fehler! Textmarke nicht definiert.
8. Communication plan	Fehler! Textmarke nicht definiert.
8.1 Internal	Fehler! Textmarke nicht definiert.
8.2 External	Fehler! Textmarke nicht definiert.

1. Introduction

This document will provide an overview over the Social Stuff project. To achieve this, the project will briefly explain the project itself, what the final products will be and who the stakeholders are. Afterwards the document will address, which potential risks could occur during the development and how the team will deal with them. Next it will be addressed, how the change management will be handled during production and how a high quality can be ensured. Next the project methodology will be handled. Finally, the communication plan will be introduced.

2. Social Stuff

This chapter explains the company briefly; it also describes the problem description and our tasks within the duration of the project.

2.1 Company description

GEDAK is an IT company which supports its customers with practical solutions for marketing, sales and customer service. Their work focuses on web-based projects such as store systems, sales and CRM solutions, reporting applications as well as ERP solutions. The office is located near Düsseldorf (DE) with about 50 employees who are supporting projects at large and medium-sized companies.

2.2. Problem description

Social Stuff is a free-software project and is intended to offer an open, decentralized alternative to current proprietary and centralized communication and social-media platforms. The decentralized model allows for an independent utilization of the software, providing companies (or users in general) with more sovereignty and less dependence on large service providers.

2.3 Our tasks

Our task is to analyse current communication services and how a decentralized approach would disrupt the market by providing the same features with increased focus on privacy and security. Afterwards, we will design how the new decentralized system could look like. Lastly, the system shall be implemented using a agile approach. During the project the whole project should be managed and monitored properly as well as documented in a detailed and structured manner.

3. Project justification

3.1 Project objectives

The goal of the Social Stuff project, is to Analyse, Design, Implement & Test an encrypted chat application which resources will be distributed in a decentralized manner, by the users as they have to set up server themselves.

This application will be deployed in a highly competitive market, which means that Social Stuff will have to differentiate itself in order to be successful. This is impart achieved by the decentralized nature of the application which provides users near full control of the chat application and various privacy settings. However, this alone might not be enough, to set Social Stuff aside from the competition. So, an optional goal be to find an additional way of provide differentiation between Social Stuff and its competitors, without forgoing the previously mentioned perguisites.

3.2 Project requirements & resources

For the project we will need several resources and there are some high-level requirements for this project. Those will be listed here

Resources

- The source code
- Coding standards (TBD)
- A shared repository on Github to do work simultaneously
- MS Teams platform for communication

Requirements

- Knowledge about TypeScript
- Knowledge about Angular
- Knowledge about Agile development
- Knowledge about Encryption (research)
 - o RSA
 - o AES
 - o Diffie Hellman
 - Elliptic curves
- Knowledge about Git

3.3 Project scope

The project scope will describe the activities we will be carrying out but also the activities that will be beyond the scope of this project.

In scope

- Creation of prototype of decentralized structure of the Social Stuff
- A report explaining our analysis, design and implementation choices
- Creation of front-end of Social Stuff
- Analysis, Design and in-code documentation
- Optional: Customer Website

Out of scope

- Fully released version of Social Stuff
- Deploying Social Stuff

4 Project products (Maurits)

4.1 Customer quality expectations

The customer expects high-quality software solutions for decentralized communication via one or multi server network. The client expects at least a desktop client. However, as we are using cross-platform technologies we try to reuse most of the desktop client solution to implement a mobile client as well.

4.2 Customer acceptance criteria

In this section, we will talk what the deliverables are and what they serve for. However, this list can change in the future.

Deliverable	Acceptance Criteria	Product Goal
Documentation	Detailed, structured,	Enables easy extensibility by providing future
	consistent, cohesive,	developer teams to improve certain parts and
	easy understandable	services of the solution
Models (part of	All models	Make the underlying technologies easier to
documentation)	are written in valid UML	understand
OOS: Server installation	Package should be easy	Server package should enable individuals to host
package	deployable on a server of the user's choice	their own communication server by making use of docker
Desktop Client	Fully functional	Deliver a desktop client to individuals which can
	desktop client which	easily be used to communicate privately and
	should be able to	securely.
	register and login to a	
	server and	
	communicate with	
	several chat partners	
	either on the same	
	server or a different	
	server	
OOS: Mobile Client	· •	Deliver a mobile client to individuals which can
		easily be used to communicate privately and
	able to register and login to a server and	securely.
	communicate with	
	several chat partners	
	either on the same	
	server or a different	
	server	
Optional: Website	Deployable website for	Providing a user-friendly website for two main
·	socialstuff.org	purposes:
		Provide potential users information about the
		service and how Social Stuff works (should be easily
		understandable, not to tech sided)
		Provide (potential) users a download portal for the
		server as well as the desktop and mobile clients
Project dossier	Detailed, structured,	Document SOFA module for teacher → reporting
	consistent, cohesive,	purposes
	easy understandable	

Table 1 customer acceptance criteria

4.3 Product opportunities

Aside from the project goals, Social Stuff has to motivation to become something more than just a one-off project. As this project sequence will only last us to January, it's important to start thinking about future iterations of the project sequence and what feature those sequences might bring forth. In order to ensure reusability of project sequence artefacts: we will maintain that all documents will be in English.

The main goal is to develop in prototype chat application, which can address the consumer demand for high privacy communication technologies. One could argue however that in such a competitive market, it is difficult to set your product aside from the competition. Therefore, further project sequences could include: expanding the platform in terms of features, maximizing security, maximizing customizability, or any other way of differentiating Social Stuff.

Pagina-einde

5 Project controls

This section of the document will clarify how the project will be managed. Next the risk management will be addressed.

5.1 Stakeholders management

The following table (TODO insert reference to tables footer) displays each stakeholder and displays their roles, influences and goals and contribution to the project.

Stakeholder	Role	Influence	Most important	How will he/she
			goal	contribute
Jörn Neumeyer	Product Owner	3	Properly	High, 3 times a
	Backend		communicate the	week active
	Developer		requirements&	
			Developing Back-	
			End	
Dave Hoevenaars	Documentation	2	Make sure the	High, 3 times a
	Quality		project runs	week active
	Assurance		smooth/time	
	&Front-end		management&	
	Developer		Developing Frond-	
			end	
Tobias Jansen	Project	2	Make sure the	High, 3 times a
	Management&		project runs	week active
	Back-end		smooth/time	
	Developer		management	
			& Developing Back-	
			End	
Malte Castner	Back-end	2	Developing Back-	High, 3 times a
	Developer		End	week active
Maurits van	Project	2	Make sure the	High, 3 times a
der Zee	management&		project runs	week active
	Front-End		smooth/time	
	Developer		management	
			& Developing	
			Front-End	
Gedak GmbH	Client	1	properly	Needs to be
			communicate the	informed/end of
			requirements/make	two-week
			sure we stay on	retrospective
			track	(company visit)
Fontys (Tutor)	Supervisor	1	Supervising the	Very little but
			project	wants to be kept
				in the loop/
				Tuesday meeting

Figure 2 Stakeholders

Stakeholder management is a critical component to the successful delivery of any project. A stakeholder is any individual, group or organization that can affect the project. In the table

below, you can find all the stakeholders of our project. The name, role, how much influence do they have from low to high (1, 2, 3), the stakeholders most important goal, contribution and the best way to manage.

5.2 Risk management

The following section will address the potential risks which might occur during the development. For risk management there will be a list containing all the risks we have identified. Together with these risks we will also come up with counter measures to either lower the likelihood of occurrence or lower the impact if said risk occurs. The risks will be ranked by its exposure and this will be calculated by using the following formula:

Likelihood * Impact = Exposure

Each risk will have a ranking concerning its likelihood and impact (1-5). The higher the exposure, the more attention must be payed to said risk.

ID R1	Risk Due to the l knowledge language, s much time researching	of coding pending to on	finish th	ot be able to	Counter measure Make sure the proper resources are available to use when it is clear which language, we will be using
R2 Table 1 Risks	End produc satisfying th requiremen client	ie	with the	ot satisfied e result which I to a failed	Make sure to show the progress and ask feedback by having demos at the sprint retrospective
ID	Risk ID	Likeliho	od	Impact	Exposure
RE1	R1	2		4	8
RE2	R2	2		5	10

Table 2 Risk Exposure

5.3 Change management

If there is any change required in the scope or plan it will be discussed following map.

Figure 3 Change management



Acceptance Procedure

Acceptance of the product should be based on the acceptance criteria of all the stakeholders. Each deliverable will be reviewed and presented to the Stakeholders.

5.4 Quality management

Quality and Configuration Management will be done to ensure quality control and quality standards. This will be done by having quality reviews. So, all the members should review each other's work. The team will keep eye on deadlines.

6 Project planning

The project has been planned to continue in a total of 18 Weeks, starting from September 2020 and finishing in January. The project planning consists of a Gantt chart, which plots the project activities on a high level alongside with several project significant events. The activities are represented by grey blocks for the percentage finished and blue blocks for the percentage unfinished.



Figure 4 Chant chart

6.1 Activities

The project activities mentioned in the project planning lead to a certain project milestone. The milestones are project achievements with a high importance. The activities are plotted in a chronological way and the width of every block represents the required time for the accomplishment of that activity. It has to be mentioned that they are on a very high level and one of them consist of multiple tasks that fit into a Sprint.

Project Plan

The Project plan has the purpose to structure the projects relevant information and further on the serve as a contact between the parties of what is going to be delivered. Success factors, customer expectations, quality and acceptance criteria have been defined.

<u>Software Requirement Specification</u>

This document has the intention to list the client's requirements. This document will serve as a checklist of the further implementation requirements and to list the use cases.

Test Plan

This plan is going to describe how we are going to test our software applications. It has the intention to test the reliability and consistency.

Implementation plan

The implementation plan will consist of the detailed steps, phases and milestones towards the successful implementation.

6.2 Events

The project events which are represented on the project planning are fixed in terms of timeslot and topic. There are going to be more events related to the project, like client interviews, company visits, solution test running etc. In order to stick to the Agile methodology, to which this project complies, these events are not fixed and therefore are not going to be included in the project planning.

Sprint Retrospective meeting

Sprint retrospective meeting is purely about the content of the current project's progress which has been achieved, but also the challenges that the project group is facing. It has the intention to check if the project is going towards the correct direction and if there are any potentially crucial problems to deal with, if there is still time left for that.

EXPO event

Approaching the end of this semester there will also be an EXPO event in which we showcase our SoFa project to students from earlier years and explain how it works and which technologies we used.

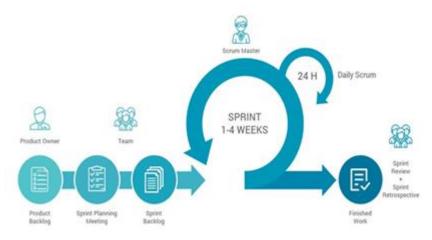
Pagina-einde

7 Project methodology

7.1 Scrum/Agile

The project methodology used during this project is SCRUM/Agile. SCRUM is an effective, flexible way to develop software with a project team. In the world of IT SCRUM has proven itself to be successful.

One of the core attributes of SCRUM is to work in autonomous teams. The SCRUM master is responsible for the SCRUM process. Every project member is involved in all stages of the SCRUM process, except creating the product backlog. The product backlog is filled by the product owner, with all the demands and tasks from the client and other



stakeholders.

Every sprint the project group has a sprint planning meeting together. During this meeting the team decides which tasks will be worked on in the next sprint. These tasks go into the sprint backlog. During a sprint, which takes 1-4 weeks, these tasks needs to be finished.

Every day during these sprints, there will be a daily stand up. During this stand up everybody tells what he has been doing the last day, what he is going to do today and what challenges he is facing. Because of these meetings everybody is aware of the progress, information can be shared and problems can be solved.

After each sprint the team get together for a sprint review and sprint retrospective. The goal of this sprint is to look back at the previous sprint and make a good start for the next. Important is that at the end of each sprint there must be a finished (part of a) product, which can be demoed.

7.2 Scrum board

One of the tools to keep an overview of the sprint planning is the SCRUM board. Every task which will be worked on during a sprint will be placed at 'To Do'. When someone starts a task, the task moves to 'In progress'. If the tasks are finished, it goes to testing or review. If the task has been tested/reviewed, it moves to done.



Figure 6 SCRUM board

The scrum board gives the team a nice overview of the process. When a team member doesn't know what to do, he can just look at 'To Do' and take up a task. During this project the SCRUM board will be used through Trello.

Pagina-einde

8. Communication plan

8.1 Internal

The internal documentation will be in English. The main internal communication platform that will be used during this project is Microsoft (MS) Teams. In MS teams it is possible to chat with each other and share documents. Our sprint planning, which is updated online in Trello, is integrated in MS Teams.

Next to MS teams, we have a WhatsApp chat group for small talks. For urgent matters we can call each other.

Name	E-Mail	Phone
Jörn Neumeyer	j.neumeyer@student.fontys.nl	+49 1575 4837195
Tobias Jansen	tobias.jansen@student.fontys.nl	+49 1577 1360750
Dave Hoevenaars	dave.hoevenaars@student.fontys.nl	+31 6 18 65 71 54
Malte Castner	m.castner@student.fontys.nl	+49 1629 712232
Maurits van der Zee	m.vanderzee@student.fontys.nl	+49 1763 0621317

Next to these communication platforms, we'll have a daily stand-up with the project team. Our SOFA-coach is Pieter van den Hombergh. He will join the weekly project meeting on Tuesday. Besides that, he will be available to answer our questions.

Name	E-Mail
Pieter van den Hombergh	p.vandenhombergh@fontys.nl

8.2 External

The external communication will mainly be by E-mail. Our main contact person from Gedak Gmbh is Gerhard Bongardt. There will be meetings with Gerhard after each sprint and additional meetings when necessary. If there are any questions, Gerhard will forward the questions to the project manager.

Name	E-Mail
Gerhard Bongardt	gbongardt@gedak.de