# PROJECT DEFINITION DOCUMENT

# Group 16:

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# Project Charter

Project Name	SimplyFit				
Project Sponsor	Stella	Project	Rui Santos		
	Kazamia	Manager			
Approval Date	26/2/19	Last Revision	14/3/19		
	_0, _, _0	Date	1 1/3/13		
Problem	Many peop		se the amount that they walk every day but have		
Definition and			The main reason for this is that they have no		
Project			ng an interactive app that allows people to		
Description		•	will boost the sense of a community and		
2000.170.011			tive environment.		
			orking in a group and those of walking more will		
	_		er and more enjoyable lifestyles.		
	•	•	these objectives in the form of an android		
		with a backend se			
			active map allowing users to communicate with		
			nd part will allow users to competitively track		
			e in a day and share it with friends. The system		
			data and rank each user from most steps to		
	least steps.				
	Step counts	will reset every 2	24 hours at 00.00.		
	The last 7 d	ays of activity will	be saved for viewing by the users.		
	The applica	tion will passively	gather data in the form of a user's step count. It		
	will also red	ord when a user t	types a message on the chat so that it can be		
	uploaded a	nd sent by the ser	ver.		
	The server will have three main purposes:				
	Store the data – Steps, Users and Messages				
	Send the messages				
	Rank the steps				
	The sensors that we will use are:				
	• Loc	ation/GPS			
	Accelerometer				
	• Car	nera			
	With Intern	et Connection			
		· · · · · · · · · · · · · · · · · · ·	ent there will be full functionality, meaning the		
	_		rver and be up to date. The user will be able to		
		nd new messages			
	Without Internet Connection				
	Only the last known rankings will be shown, and all messages received up				
	until the last sync will be shown. Messages sent will be stored ready for				
	sending and sent once a connection becomes available. The application will				
	continue to count steps.				
Scope	The app will notify users of other users within a selected radius. Users will be				
	able to add friends and chat with other users. Users will be able to count their				
	steps walked for the day and compare statistics with other users.				
	Time 11 Weeks				
	Budget		People - 6 Developers		
Constraints		Money – n/a			

	Privacy	Collection of da	ta – The ann must ask for	
Constraints (cont)	Collection of data – The app must ask for permission before the app can track or record anything. The user must be aware of what is being recorded, when and how it is used. In this example the main issue will be location data. Location data will be tracked even when the app is running in the background. Users must agree to this before they can use the app. The app will also collect basic info including name, age, height, weight, email etc.  Use of collected data – Once collected, the data must be stored securely. All data related to a user must be encrypted to prevent unauthorised people from retrieving the data. This is especially important in regard to location data as this could result in a serious privacy issue if not handled seriously. The user will be made aware of how the data will be stored.  GDPR and Data Protection Act -The app must conform to all legal constraints including GDPR			
Deliverables	March 2	and Data Protec	tion Act.	
Deliverables	Week 3 Project Definition			
	Week 6			
	Project Pitch			
	Week 7			
	1100.17			
	Interim Audit Report  Week 7 Onwards			
	Group Scaling Audits Week 11			
	Final Audit Report			
Project Team	Role	Derson	Individual Goal	
Troject realli	Project Manager	Person Rui Santos	To improve my	
	i roject wanager	Nai Jantos	leadership and	
			teamworking skills.	
			Develop project	
			management skills	
	Technical Lead	Louai Sadrouai	Improve teamwork	
			with people that	
			previously I didn't	
			know	
			<ul> <li>Working under pressure</li> </ul>	
	Documentation Lead	Mathew	<ul><li>Learn git/version</li></ul>	
		Slingsby	control	
		_	Improve group work	
	Design Lead	Tomas	Learn how to use	
		Sekstela	android studio,	

		<ul><li>Be engaged in group work</li><li>Develop my design skills</li></ul>
Primary Coding Team	Sachin Shah	<ul> <li>Improve team         working and         communication skills</li> <li>Become more familiar         with database design         and using Firebase</li> </ul>
	Reuben Sarkar	<ul> <li>Improving my technical ability with firebase and location-based android</li> <li>Learning to use GitHub to develop an app with multiple developers</li> </ul>

## Risk Management

Risk	Probability	Impact	Solution
Failure to meet Interim Deadlines	Possible	Low- Medium	Stage 1 – If the person responsible for the task that was not completed is aware that it may not be finished on time yet expects to have it completed soon after the deadline then no further action is required as long as the group is notified beforehand and kept up to date.  Stage 2 – If the deadline has passed and it is clear that significant progress is needed to complete the tasks, extra resources will be appointed to help complete the task. These will be discussed with PM and appointed as needed.  Stage 3 – If after extra resources have been allocated, there is evidence to suggest that the objective is still falling behind the primary focus of the group will turn to this task and the group will support the lead of that task to ensure it is completed.
Group member failing to show up for meetings without a reason	Possible	Low- Medium	PM will chair the meeting if the person scheduled to chair the meeting Is absent. In the event the PM is absent the technical lead will chair the meeting. If it becomes apparent that member(s) are frequently not attending meetings without reason or become unengaged with the project, the PM will discuss options with the member, however if resolution is not achieved, the group will discuss with Stella.
Loss of work	Very Unlikely	High	If part of the project is lost due to technical failure, the PM will appoint more resources if and where needed to catch up. The group will regularly back up all data to ensure that loss of work is unlikely.
Failure to meet a project objective.	Unlikely	High	If it appears that a certain aspect of the project will not be fulfilled in the given time irrelevant of extra resources. The group will discuss alternatives and present these to Stella in good time of any deadlines.

# Team Charter

#### Purpose Statement and Group Objectives:

Our group has been formed to complete the Software Engineering assignment as part of the Computer Science degree. The overall objective is to produce the product we designed and produce a detailed final audit report, testing report and individual report for each group member. We are determined to commit to the project as a group and will effectively do this by the constant monitoring and writing up of meetings and discussions had together.

#### Analysis of Strengths and Developmental Needs:

To ensure that we achieve our main goal, we analysed the skill sets of each individual member of our group and how we could better use the skills to achieve our goal more efficiently.

#### Strengths:

#### Knowledge:

- Over 80% of our group has had previous experience with android development for at least a semester.
- One member has knowledge of the business side of technology which is helpful for the production of documents like these.

#### Social Skill

- The group interacted well upon selection and all people are eager to do well in this project.
- The group members have great communication skills enabling for a fast exchange of ideas and perspectives, enabling for a quicker and more efficient planning stage.

#### • Background and Experience

 There is a mix of culture and backgrounds of our members which enable for a diverse exchange of different perspectives which works great in a group when planning.

#### Developmental Needs:

- Lack of professional experience in working in a software group
  - All group members are currently students and most have none/minimal previous experiences of working in a group developing software.

#### **Functional Roles:**

Project Manager: Rui

• Technical Lead: Louai

Platform Engineer: ReubenDocumentation Lead: Mat

Design Lead: Tomas

Testing Lead: Sachin

#### Group Process Management:

#### Group meetings

Group meetings happen on every Monday and Thursday except when the group has holidays or decide to meet on a different day.

#### Decision-Making Procedure:

Group has an open discussion on recent issues then decides which steps to take to resolve the issues. Before agreeing on the final idea each member has an opportunity to make final comments regarding either the idea or unresolved issues. If the group can't decide upon the idea, then it uses voting. We define a general agreement where all group members can claim that "I can and will support this idea even if it may not be the ideal decision".

#### *Group Communications:*

We are open to any kind of communication however electronic or phone communication is the most often used outside the meetings. Our main electronic communications platform is "Messenger" app. If the member of the group has any issues with the chosen communication platform, then there is a necessity to change the communication method.

# Process Roles: Group leader: Rui Process Monitor: Louai

Recorder: Mat

#### **Expectation of Group Members:**

#### Responsiveness

Members are expected to be active and responsive in messages/group chats for quick communication between members. Critical for the success of the project as this will make the group more efficient.

#### Attendance at meetings

We expect everyone to attend the two meetings a week on Monday and Thursday. If a member is absent he/she will have to provide a valid excuse and a secondary person fills in for their role. Members are expected to arrive on time.

#### **Participation**

Members are expected to participate and engage in these meetings, putting forward their own ideas/opinions on various topics. Members are also expected to participate in group chat, to discuss further ideas.

#### Group Expectations Accepted By:

Mathew Slingsby	M.Slingsby	18/3/19
Reuben Sarkar	R.Sarkar	18/3/19
Louai Sadraoui	L.Sadraoui	18/3/19
Tomas Sekstela	T.Sekstela	18/3/19
Rui Santos	R.Santos	18/3/19
Sachin Shah	S.Shah	18/3/19

#### Assessment of Group Effectiveness:

After every group meeting, we conclude the meeting with a review at the end. This review summarises what we have accomplished in that meeting and which members participated in the discussions and idea exchange. The review also provides an effective progress tracker as we can track the development of the project by reading them and seeing what is achieved.

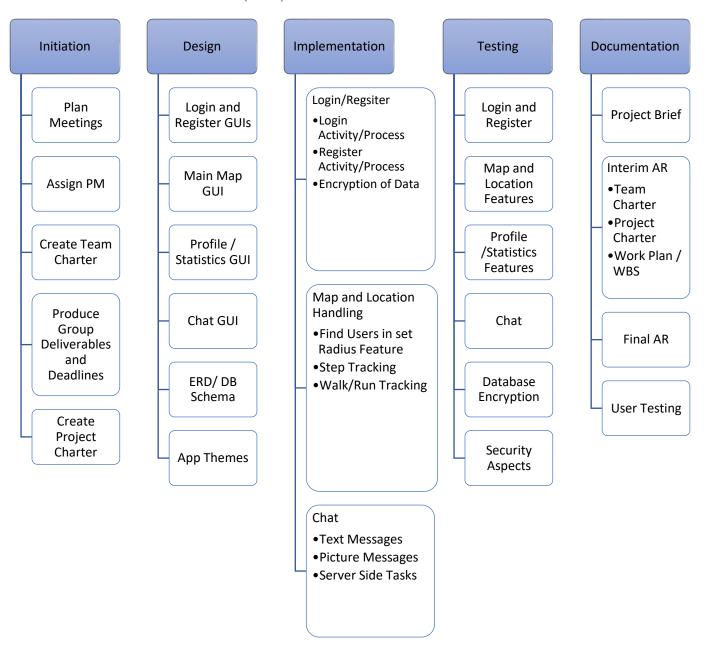
# Work Plan and WBS

# Work Plan

Item	Description	Success Criteria	Responsible	Sources/Resources
Login/Register	Responsible for	<b>Design</b> – All suitable	Louai	Android Studio,
	the analysis,	GUIs have been		Violet UML, GitHub
	design,	designed and		·
	implementation of	approved within		
	the Login and	group.		
	Register features.	UML created.		
	Each phase of	Implementation – All		
	development will	objectives of the		
	be overseen by	section have been		
	the relevant lead.	met.		
Map/Steps	Responsible for	Suitable test cases	Mat and	Android Studio,
	the analysis,	have been	Reuben	Violet UML,
	design,	implemented and		GitHub, Google
	implementation of	they all pass.		Maps API
	the Map and Step			'
	count features.			
	Each phase of			
	development will			
	be overseen by			
	the relevant lead.			
Chat	Responsible for		Tomas	Android Studio,
	the analysis,			Violet UML,
	design,			GitHub, Firebase
	implementation of			·
	the Chat feature.			
	Each phase of			
	development will			
	be overseen by			
	the relevant lead.			
Profile and	Responsible for		Sachin Louai	Android Studio,
Stats	the analysis,		and Rui	Violet UML, GitHub
	design,			
	implementation of			
	the Profile and			
	Stats features.			
	Each phase of			
	development will			
	be overseen by			
	the relevant lead.			
ERD/DB	Responsible for	ERD created	Sachin and	Android Studio,
Schema	the analysis and	and	Rui	Violet UML,
	design of the	approved by		GitHub, Firebase
	database including	group.		
	ERD and Schema	<ul><li>Schema</li></ul>		
	features.	created from		
		ERD and		

		approved by group  Database implemented from schema.		
Documentation	Responsible for completing all relevant documents:  Project Brief Interim Audit Report Final Audit Report User Testing Each document will be broken down into sub sections and divided amongst the group. One person will collate the information and display in one document.	All documents completed to a standard above the 70 -80 band. All documents submitted on time.	All (Collated by Mat)	

### Work Breakdown Structure (WBS)



# **Appendix**

• Gantt.xls (Provided Separately)