

# <Study Group App>

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## Revision History

Last User to make Changes	Date	Summary of Changes
Ayman Alghamdi	02/03/2017	Initial Release
Ayman Alghamdi	02/17/2017	<ol style="list-style-type: none"> <li>1. Adding the status for the first sprint stories.</li> <li>2. Calculating the velocity.</li> <li>3. Writing the retrospective.</li> <li>4. Adding the actual hours spent for each task in sprint#1</li> <li>5. Creating sprint#2 backlog.</li> </ol>
Ayman Alghamdi	03/04/2017	<ol style="list-style-type: none"> <li>1. Adding the status for the second sprint stories.</li> <li>2. Calculating the velocity of the second sprint.</li> <li>3. Writing the retrospective.</li> <li>4. Adding the actual hours spent for each task in sprint#2.</li> <li>5. Creating sprint#3 backlog.</li> </ol>
Ayman Alghamdi	03/17/2017	<ol style="list-style-type: none"> <li>1. Adding the status for the third sprint stories.</li> <li>2. Calculating the velocity of the third sprint.</li> <li>3. Writing the retrospective.</li> <li>4. Adding the actual hours spent for each task in sprint#3.</li> <li>5. Creating sprint#4 backlog.</li> </ol>
Ayman Alghamdi	03/29/2017	<ol style="list-style-type: none"> <li>1. Adding the status for the fourth sprint stories.</li> <li>2. Calculating the velocity of the fourth sprint.</li> <li>3. Writing the retrospective.</li> <li>4. Adding the actual hours spent for each task in sprint#4.</li> <li>5. Creating sprint#5 backlog.</li> </ol>
Ayman Alghamdi	04/10/2017	<ol style="list-style-type: none"> <li>1. Adding the status for the fifth sprint stories.</li> <li>2. Calculating the velocity of the fifth sprint.</li> <li>3. Writing the retrospective.</li> <li>4. Adding the actual hours spent for each task in sprint#5.</li> <li>5. Creating sprint#6 backlog.</li> </ol>
Ayman Alghamdi	04/30/2017	<ol style="list-style-type: none"> <li>1. Adding the status for the sixth sprint stories.</li> </ol>

		<ol style="list-style-type: none"><li>2. Calculating the velocity of the sixth sprint.</li><li>3. Writing the retrospective.</li><li>4. Adding the actual hours spent for each task in sprint#6.</li></ol>
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## Vision Statement:

For students of all ages who want to study in groups or trainers who want to create their virtual classes to keep in touch with their group members, the StudyGroup App is an educational social networking App that allows users to create or join groups study. Unlike traditional face-to-face group study method, our product allows users to create groups and give them distinct names and different educational areas such as Engineering, Education, Arts, etc. In addition, users can make the groups private or public.

## Categories of Users:

**Students and Educators** – who have Android smartphone knowledge.

## Actor-Goal List

Actor	Goal
Group Member	Find groups in area of interest
	Browse lists of available public groups
	Joining a group
	Sending requests to join private groups
	Join public groups
	A joined groups list.
	Collaborating and asking questions
	share files
Group Admin	Create a group in specific area
	Select an educational area from a list of existed educational areas
	Make a group profile
	Invite members
	Invite members via different communication media tools: E-mail, social media platforms, SMS, etc.
	Group activity
	Create group activities and exercises

## Users Stories:

<p><b>Estimated Effort: 20 Story Points</b></p> <p>As a teacher, I want to be able to create a group for my class where I can provide them with references like e-books, videos, and written materials that may help them to understand better what will be/has been presented in class.</p>	<p><b>Estimated Effort: 16 Story Points</b></p> <p>As a student, I want the App to recommend some public study groups to me base on my area of interest.</p>
<p><b>Estimated Effort: 15 Story Points</b></p> <p>As a user, I want all my personal information and group information to be safe and protected.</p>	<p><b>Estimated Effort: 16 Story Points</b></p> <p>As a teacher, I want to be able to reset my password easily and safely.</p>
<p><b>Estimated Effort: 18 Story Points</b></p> <p>As a trainer, I want to be able to communicate with my group via voice and chat where they can form a queue for members' participation and questions that make it easy to teach and communicate.</p>	<p><b>Estimated Effort: 19 Story Points</b></p> <p>As a user, I want to be able to search and sort the public group list by various ways that I can find what I want fast.</p>
<p><b>Estimated Effort: 20 Story Points</b></p> <p>As a student, I want the App responses fast and be a support team that help members when problem happen.</p>	<p><b>Estimated Effort: 18 Story Points</b></p> <p>As a teacher, I want my students to be able to create groups, including me, to complete their tasks that request or allow group work at their ease and convenience. So that I could be a part of it and watch their cooperation and performance and be able at the same time to provide them with assistance whenever needed.</p>
<p><b>Estimated Effort: 12 Story Points</b></p> <p>As a trainer, I want to have in the app some teaching tools that help me while I'm teaching.</p>	<p><b>Estimated Effort: 5 Story Points</b></p> <p>As a teacher, I want to be able to create group for my students only to hear their suggestions and feedback about the materials, teaching styles, and exercises used in class.</p>
<p><b>Estimated Effort: 12 Story Points</b></p> <p>As a student, I would like to have a calendar that as a team we can organize our study.</p>	

## Product Backlog:

Story ID	Story	Story Points	Priority	Status
S1	User sign up and create user profile.	20	1	Completed 02/13/2017
S2	Allow users to sign in.	17	2	Completed 02/13/2017
S3	Allow users to reset or send password	16	3	Completed 02/13/2017
S4	Allow user to create a new group and build its profile.	15	4	Completed 03/14/2017
S5	Allow user to invite members to his/her group; 5 members max.	14	6	Completed 03/18/2017
S6	Allow a group member to communicate together.	18	5	Completed 04/10/2017
S7	Allow users to search in public groups and sort them by content area, date (newest, oldest), or alphabetically.	19	7	Completed 03/18/2017
S8	Allow group members to share photo.	20	10	Completed 04/15/2017
S9	Allow groups admins to delete their groups.	16	18	Completed 04/25/2017
S10	Allow users to leave the groups they joined.	20	13	Completed 04/29/2017

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## Use Cases:

<b>Title:</b>	Signing in
<b>Use case ID:</b>	UC001
<b>Actor:</b>	user
<b>Description:</b>	This use case describes the system interactions with wrong entered username or password or both.
<b>Basic Flow:</b> <ol style="list-style-type: none"><li>1. This use case begins when a user clicks on “Sign in”.</li><li>2. User enters the correct username and password.</li></ol>	
<b>Alternate Flows:</b> <p>2a. The password or the username are wrong.</p> <ol style="list-style-type: none"><li>1. For the first time, the system displays a message “username or password or both is incorrect”.</li><li>2. For the second time, the system shows the same message and ask user to type what in the picture; numbers and letters.</li><li>3. The system responds the same for the next three wrong sign-in tries.</li><li>4. Then, the system will hold the account for 30 minutes and send an alert email to the account owner.</li><li>5. In 30 minutes, user can sign in again.</li></ol> <p>2b. The user does not have an account.</p> <ol style="list-style-type: none"><li>1. The system displays a message “Sorry, we don't recognize this email”.</li></ol>	
<b>Open issues:</b> <ol style="list-style-type: none"><li>1. If the user enters an unrecognized email, system takes user to the sign-up layout</li></ol>	



## Sprint #1

### Sprint Backlog:

Story ID	Story / Task	Estimated Hours	Actual Hours
S1	Writing the App license terms and agreement	5	8
	Designing user signing up profile UI form.	7	8
	Determining and implementing the App database	8	19
	Writing the code	9	12
	Testing	2	2
S2	Designing user signing in UI.	2	3
	Checking entered username and password in database, and hold the account temporary after four wrong logins.	4	15
	Adding remember me button	1	1
	Coding remember me button	3	3

### Retrospective:

For this iteration, I planned to complete two stories S1 and S2 and both are completed spending time more than I planned. I underestimated the hours to complete tasks. Also, I've faced some difficulties in completing these two stories that why I spent more time than I planned. First, I spent most the time learning java because this is my first time coding java program. Second, I spent too much time learning how to build external database and connecting tables with my android since I have "log in" and "sign up" UI. In my opinion, these two obstacles are helped me to learn more.

**Project velocity: 37**

## Sprint #2

### Sprint Backlog:

Story ID	Story / Task	Estimated Hours	Actual Hours
S3	Designing an UI for rest password	3	5
	Check the entered email with the database	9	8
	Send the current password to the user email	10	12
S4	Designing an UI with two tabhost (Public group / Private group)	8	10
	Designing an UI for users to create a group.	10	9
	Building tables in my database for public group and private group information	15	20
	Allow user to see all public groups and their private groups they created or member in.	7	-
	Display all groups sorted by their title.	6	-

### Sprint Goal:

Make the application run and synchronize with SQL database.

### Retrospective:

For this iteration, I planned to complete two stories S3 and S4 and I completed S3 and the first three tasks from S4. I spent too much time more than I planned on how to build an external database and connecting it with the App because this is my first time dealing with real time database connection and I have no idea about it before. I just guessed the number of hours to complete tasks. Also, I've faced some difficulties finding free hosts that I can use to build my real time database that allow me to connect with it from outside.

**Project velocity:** 53

## Sprint #3

### Sprint Backlog:

Story ID	Story / Task	Estimated Hours	Actual Hours
S4	Allow user to see all public groups and their private groups they created or member in.	7	10
	Display all groups sorted by their title.	6	7
S5	Design a UI for the group admin shows all app users.	9	12
	Code the UI.	15	16
	Updating the group members' information in database	10	8

### Sprint Goal:

Make chatting between users fast and the database updated all time.

### Retrospective:

For this iteration, I planned to complete two stories S4 (the last two task from previous sprint) and S5 and I completed both. In addition, I changed the way the user sing up to be by using google account. Also, I changed the design of the layout to be more professional. Everything was perfect. I used FireBase services.

**Project velocity:** 29

## Sprint #4

### Sprint Backlog:

Story ID	Story / Task	Estimated Hours	Actual Hours
S6	Designing groups chatting layout.	8	-
	Code the UI.	16	-
	Connecting the group chat with the database	11	-
	Testing	2	-
S7	Designing user UI search.	9	7
	Code the UI.	15	10
	Add "sort by" UI.	10	8
	Code the UI.	16	12
	Connection both UIs to the database.	15	13
	Testing	2	7

### Sprint Goal:

Make chatting between users fast and the database updated all time.

### Retrospective:

For this iteration, I planned to complete two stories S6 and S7 and I completed only S7. I struggled a lot with communication database server host. The current database host allow me to have only one chat room for my free account and I must upgrade and pay if I want more. The price is too much for me that I did not planed for. So, I spend time looking for a host that allow more than one chat room that I can test my app. I just found one and I'm working on it.

**Project velocity: 19**

## Sprint #5

### Sprint Backlog:

Story ID	Story / Task	Estimated Hours	Actual Hours
S6	Designing groups chatting layout.	8	14
	Code the UI.	16	19
	Connecting the group chat with the database	11	16
	Testing	2	2
S8	Build database for groups attachments as backup.	16	20
	Designing UI for adding attachments	14	5
	Code the UI.	16	19
	Save all attachments in users' devices.	15	12

### Sprint Goal:

Build chat room for each group and allow sharing photos and video.

### Retrospective:

For this iteration, I planned to complete two stories S6 from previous sprint and S8 and I completed both. Everything goes perfect with no problem. I had to re-build the communication chat database and the layout code.

**Project velocity: 38**

## Sprint #6

### Sprint Backlog:

Story ID	Story / Task	Estimated Hours	Actual Hours
S9	Designing delete a group layout.	8	5
	Code the layout	10	8
	Add permission in the database for group admins to delete groups from database.	15	10
	Test permission and database	4	9
S10	Designing leave a group layout.	10	8
	Code the layout	15	10
	Add permission in the database for all users to delete themselves from group database.	16	14
	Test permission and database	5	3

### Sprint Goal:

Make the app and the database secure by giving the right permissions.

### Retrospective:

For this iteration, I planned to complete two stories S9 and S10 and I completed both. Everything goes perfect with no problem.

**Project velocity:** 36