AppDossier

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Members: Maxwell Tsao, Ho Lyun(Lucas) Jeong,

Andy Tran, Roy Choi, Justin Kim

Period 2

Client: Maxim Alayev

Name of Project: SociAPP

Group Members: Maxwell Tsao, Andy Tran, Roy Choi, Lucas Jeong, Justin Kim

Criterion B should provide evidence of a rigorous design stage with an overview of all five stages of the project (including the actual intended use of the product by the client) in the Record of Tasks, multiple levels of design sketches out how the development process will proceed that include algorithmic breakdown for complex techniques, and evidence of algorithmic thinking (in the form of flowcharts, UML diagrams, pseudo-code). All high scoring projects included a thorough design stage. NO CODE NEEDS TO BE DONE YET.

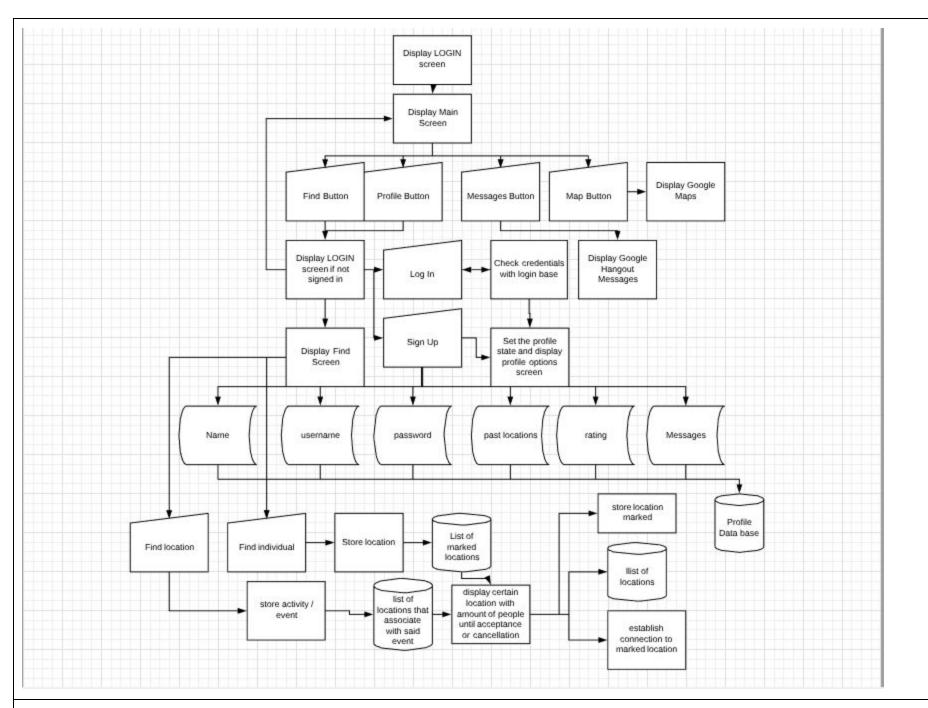
Record of Task Dossier | Criterion B

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Task number	Planned action	ePlanned outcome	Time estimated	Target completion date	Criterion
1	Spend time to brainstorm and propose potential solutions	Suggest some test products and prototypes that might solve the given problem	2 days	2/11/19	А
2	Spread out a layout of selected prototypes	At least 3 drawings must be completed before I meet with the client again	3 days	2/14/19	А
3	Refer back to the criteria of success to make sure nothing is mistaken and meet with client to discuss about the potential prototypes	Making sure to take notes and ensure that they are organized	1 day	2/15/19	А
4	Finalizing the prototype that would be in use and would be a better application overall	When finalized, implement the final build	2 day	2/17/19	А
5	Begin programming stage using the programming language	Create a runnable application that does the bare minimum of the criterias of success	7 days	2/24/19	В
6	Finish the programming stage and test the criterias of success. Fix any issues or problems	A runnable application that matches the criteria of success	2 days	2/26/19	В
7	Publish the application and give to the client for revisions	Obtain feedback on finished product	1 day	2/27/19	В

Chart of Build Of Features for Product Dossier | Criterion B | Internal Design

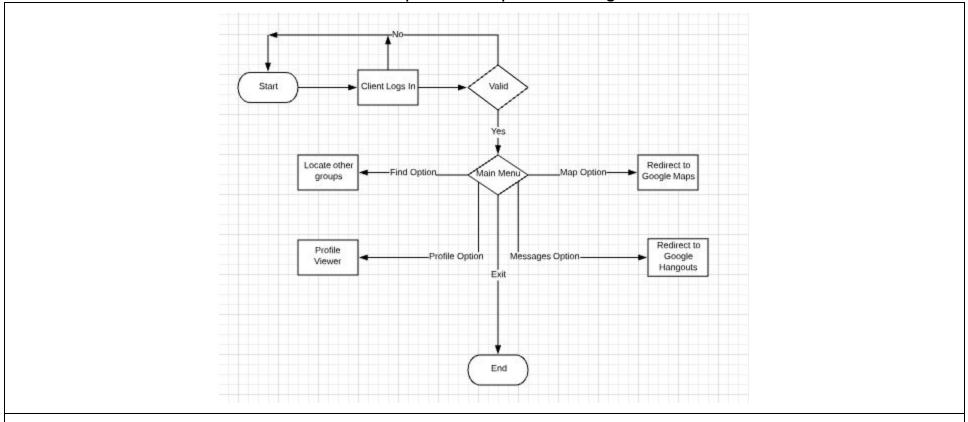
Login Page	Home Page	Active Groups	Make New Group	Anonymous Profile
Username box Password Box Forgot/password change Enter button/Verification Open Home	Log off button to login page Find group button to find group page Edit profile button to edit profile page Make new group button to make group page Display of current groups on map WebViewer Cloud Storage	Active group bubbles Button Table view label Map of current location Home button	Map of school grounds that can be clicked on to add a location marker WebViewer Icon Drag and Drop Public Cloud Storage Group name text box Topic text box Info text box Publish button TinyWebDb Cloud messaging Home button	Data log TinyDB Graph Interests box School box Info box Help button to external site

List of features that must be implemented in the product. These include the basic functions such as the username and password box for the login, the main buttons to either create groups, find groups, or perform other functions integral to maintaining a SociAPP account.



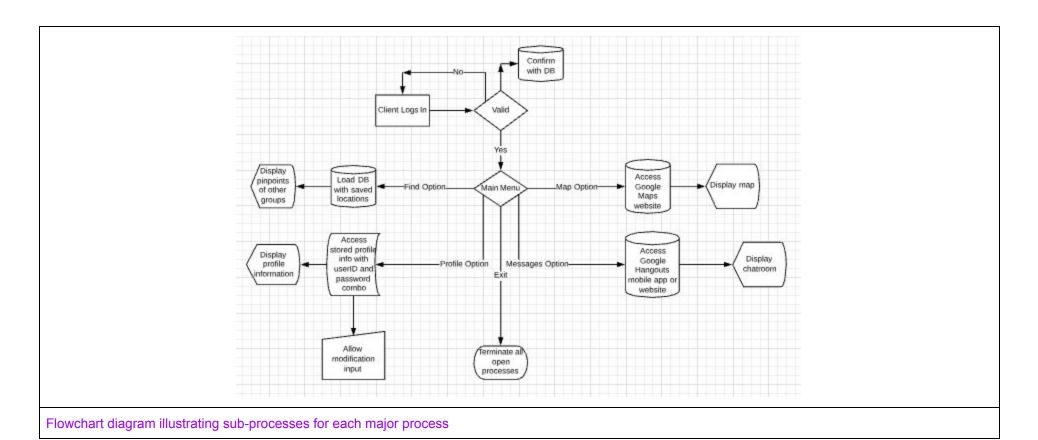
The graphic above shows the processes, visuals, and data that are connected throughout our app, SociAPP

Flowchart Diagram of Product Dossier | Criterion B | Internal Design



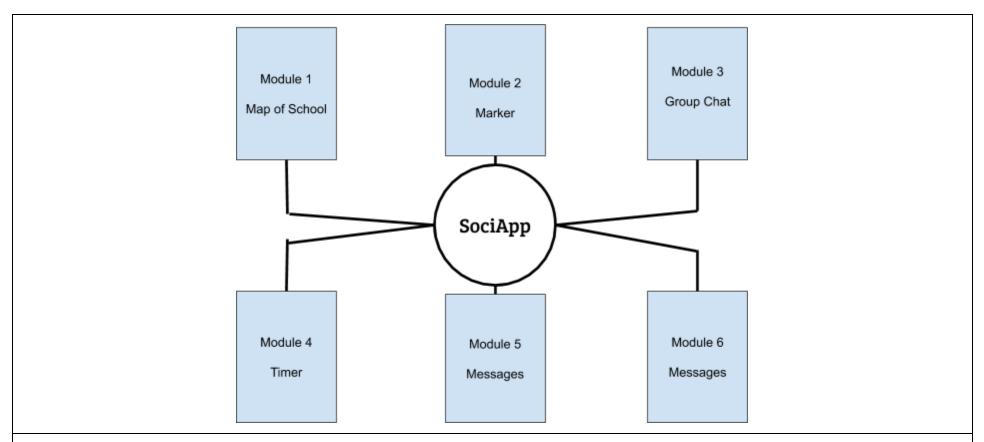
Flowchart diagram of the major functions of the product. Sub-processes detailed in section below

Flowchart Diagram of Sub-process Dossier | Criterion B | Internal Design



Modular Diagram

Dossier | Criterion B | Internal Design



This diagram shows the modules required to create the SociAPP. It needs a timer, messages, buttons, a map, a group chat, and a marker in order to make the basic functions of the app.

Inheritance and Class Diagram | UML Diagram
Dossier | Criterion B | Internal Design

SociAPP Class UML Diagram

User

String name
String username
String password
Location[] pastLocations
double rating

message(User user, String message) addMarker(Location location, Caption caption) joinGroup(Marker marker) Marker

Location location String caption User[] members

remove() showLocation() Location

double x double y

showOnMap()

This is the UML Diagram for a potential design for the app

Since all the users have the same set of operations, there is only one user class

Also since the app relies heavily on the available widgets such as Google Maps, there are not many new class structures that need to be defined However, since Applnventor will be used in developing the app and Applnventor most closely resembles a procedural programming language rather than an object-oriented programming language, this design will probably not make it into the final product.

Data Dictionary | Variable Table
(identify names | types of data | inputs outputs | range of data*)
Dossier | Criterion B | Internal Design

N	ame	Type	Input	Output	Range
	name	String	set and modified by the user on the profile page	displayed on the profile page	proper name
	username	String	set and modified by the user on the profile page	displayed on the profile page	6 to 16 alphanumeric characters
user	password	String	set and modified by the user on the profile page	hidden	ofile page proper name ofile page 6 to 16 alphanumeric characters 8 to 16 alphanumeric characters should have the past 5 to 10 locations where the uer has lunched ofile page 0 to 5 should have distinct users should be within bounds of Troy High School at a proper lunching location nation page of reasonable number of distinct users should be within bounds of Troy High School a description of the lunch group should have a reasonable number of distinct users should be within bounds of Troy High School user database
user	pastLocation s	Location[]	automatically stored as the user joins a group	displayed on the profile page	to 10 locations where
	rating	rating double calculated by the system displayed		displayed on the profile page	0 to 5
	notifyList	User[]	list updated by user	displayed on the profile page	284
	location	Location	set and modified by the owner of the marker via Google Maps	displayed as a pin on Google Maps	of Troy High School at a
marker	caption	String	set and modified by the owner of the marker	displayed on the information page of the marker	
	members	User[]	list updated as members join	displayed on the information page of the marker	reasonable number of
location	x	double	via Google Mans	nin is displayed on Google Mans	should be within bound
tocation	y double		of Troy High School		
u	sers	User[]	list updated as new user accounts are created	stored in database	user database
ma	arkers	Marker[]	list updated as users create new markers	stored in database	list should be refreshed everyday

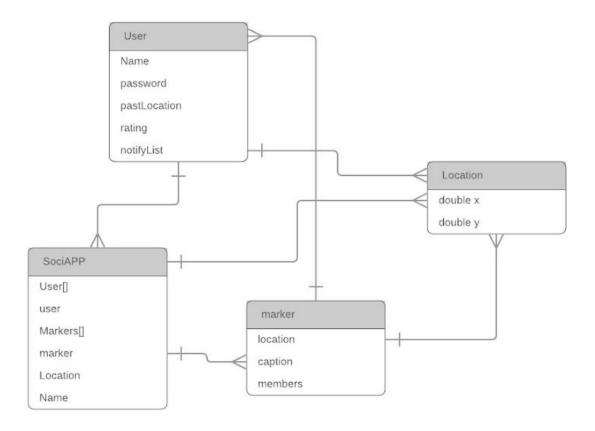
A table of different variables that would be used to store data

Database
Dossier | Criterion B | Internal Design

^{*}Range of data should callout or identify the what would be normal, extreme, abnormal data

Database

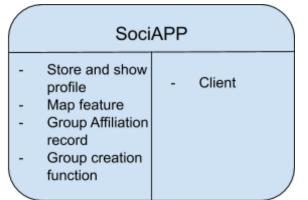
Justin Kim | February 12, 2019



This database diagram represents all the data stored in the database of Sociapp. As one can see, this database is made up of multiple classes and objects that help the system/app function.

CRC Cards Dossier | Criterion B | Internal Design

Client - Profile - Location - Interests - Group Affiliation - Create a group



Class-Responsibility-Collaboration Cards which outline the functions of dominant classes during the use of this product. The client is able to manage accounts and view groups while sociAPP is responsible for delivering the requested features and functions.

List of Features to Build Dossier | Criterion B | Internal Design

- 1. Log-in function
- 2. Log-in button
- 3. Password checker
- 4. Password update link
- 5. Cloud based data storage
- 6. Home page
- 7. Log-out button
- 8. Find a group button
- 9. Make a group button
- 10. Edit profile button
- 11. Active thumbnail of school map with group icons
- 12. Page with active groups on a gps accurate map
- 13. Bubbles in map representing groups
- 14. Expandable bubbles with group details
- 15. Clears bubbles after a lunch is over
- 16. Home button
- 17. GPS Map of school groups
- 18. Ability to add a location marker for a group
- 19. Group name text box
- 20. Topic text box

- 21. Info text box
- 22. Publish button which displays group on map to all users
- 23. Interests text box
- 24. School text box
- 25. Info text box
- 26. Log of user activity box
- 27. Help button to external site
- 28. System to transfer between pages

This is a list of all features that are necessary for the functionality of the app as intended. Each item must be implemented on different pages in order for the app to work.

Schedule for building the product¹ Dossier | Criterion B | Internal Design

		Dossiel Official D			
Task number	Planned action	Planned outcome	Time estimated	Target completion date	Criterion
1	Implement the design of the app onto MIT App Inventor.	Have the whole design of the app on App Inventor.	2 days	2/15	This design should include buttons, markers, a map, and a main screen that a person first sees when he or she opens up the app.

¹ The requirements for this worksheet will depend on the product being developed, the development environment, and development paradigm.

2	Create code for the marking a location on the map and make it so that the mark can be seen by other people	Create the code needed to place markers on a given map	2 days	2/17	Make sure the user is able to mark on the map so that others can see his or her potential location. Also, make sure that the map is identical to the real location area.
4	Create more code for the marker so that the user's personal information can only be viewed by the person.	Create functional code needed for Criterion 3	3 days	2/20	Make sure that the user's personal informati on is only viewed by the user him/hers elf. Other users using

5					that app should not have the ability to see the personal informati on of another user through a marker.
when a lot man the record the lab group cool call bur added to the lab carbon cool carbon cool call bur added to the lab carbon cool carbon	beled as "lunch oup." Also, create	Create functional code that allows a user to create markers and join lunch groups. Also, create code for a button that allows user to add friends/other users to a notifications list	4 days	2/24	Make sure that when the user pinpoints his or her location, other users of the app can receive a notificati on to know the user's location. Also, the user should have to ability to

	T	T			1
					add his or
					her
					friends
					that use
					the app
					to a list
					of
					notificati
					ons.
					Those
					friends/o
					ther
					users
					should
					receive
					future
					notificati
					ons.
6					The user
					should be
					able to
					place a
					marker
					on the
					map
	Create code to a	The markers should appear for a certain			during
	timer on the markers.	amount of time and	2 days	2/26	lunch. By
					the end
					of lunch,
					the
					marker
					should no
					longer
					remain.
					Terriairi.

-					A
7					A pop-up
					survey with a
					question
	Create code that can ask to gain a rating				naire
					should
					appear
					after the
					user has
					used it.
					Hopefully
		I the user should get a non-un survey after he	1 days	2/27	, the user
	from the user				is able to
					input a
					rating.
					This
					rating will
					help the
					develope
					rs know
					what
					issues to
					fix
8					The user
	Create code that sets				should
	a limit to how much				not be
	requests a user can				able to
	make to other				send an
	people. If the user goes over the limit, the app should deny the user from sending	Create functional code that sets a limit to how	2 days	2/28	unlimited
		much a person can send requests.			amount
					of
					requests
	requests for a set				during
	amount of time.				lunch
					time. In

	1			T	1
					order to
					ensure
					that, if
					the user
					goes over
					the set
					limit, the
					user has
					to wait
					for a
					couple of
					minutes
					before
					using the
					арр
					again.
9					When a
					user taps
					on a
					marker
		n a			on a
					given
					map, the
	Create code in a				user
	button that takes a	Have functional code that can allow the user			should be
	user to a chatroom	to access chat rooms through a marker	1 day	3/1	able to
	when the user selects a marker.	to decess char rooms through a marker			access a
					chat
					room
					where he
					or she
					can
					contact
					the
					owner/ot
L	1		I	t e e e e e e e e e e e e e e e e e e e	

					her user of the marker.
10	Create code for a do not disturb button to block notifications during lunch period	Have functional code that allows a user to click on a button that blocks a notification.	2 days	3/3	The user should be able to click a button that blocks notificati ons from other users who use the app.
11	Check that the app works.	The app should be finished for the user (Maxim) to use. Any errors should be fixed by then.	2 days	3/5	The app should work with the least amount of errors/gli tches.

This is the schedule that outlines milestones and their predicted time of achievement. The schedule serves as both a guide and a record of upcoming events and past events during the design and development of the product.

The code for this project will be due 3/5