PROJECT OVERVIEW

NEIGHBOR NINJA

OVERVIEW

LAST SUMMER, I PITCHED AN IDEA FOR AN APP TO A TEAM AT YANTRA INC., WHO THEN PROCEEDED TO SERVE AS A RESOURCE FOR ME AS I PLANNED. DESIGNED, AND CREATED MY CRIME AWARENESS MOBILE APPLICATION, NEIGHBOR NINJA. THE APP **ALLOWS USERS TO COMMUNICATE WITH EACH** OTHER ABOUT CRIMES HAPPENING IN REAL TIME AND PROMOTES SAFETY ON COLLEGE CAMPUSES. MY TEAM AND I PLAN TO LAUNCH A BETA ON UNIVERSITY CAMPUSES IN SUMMER 2017.

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MEETING 1

NEIGHBOR NINJA

- CRIME WATCH SUBSTITUTE
- ► USER LOGS IN TO ACCOUNT ON WEB OR MOBILE DEVICE
- USER REPORTS CRIME OR SUSPICIOUS ACTIVITY
- ► NEIGHBORS (WITHIN SET RADIUS) ARE NOTIFIED VIA PUSH NOTIFICATIONS



MISC

- DATA CAN BE USED AND SAVED AS STATISTICS TO CATEGORIZE NEIGHBORHOODS BASED ON CRIME
- STATS WILL BE DISPLAYED TO USERS (SHOWING CRIME RATES, ETC)
- ► QUICK AND SIMPLE PROCESS TO SECURE NEIGHBORHOOD



WHAT HAS BEEN DONE

- HOME PAGE WITH DETAILS
- SIMPLE USER LOG IN SYSTEM



WHAT I PLAN TO DO GETNNINJA.COM

CREATE USER PANEL WITH SUBMISSION AREA, STATS, AND NOTIFICATIONS

- CREATE MOBILE APP WHICH ALLOWS FOR PUSH NOTIFICATIONS
- ► CREATE WORKING SYSTEM WHERE USERS CAN SUBMIT QUERIES AND NEIGHBORS WILL BE ALERTED



HOW I PLAN TO DO IT

SET RADIUS AROUND EACH USER TO DEFINE "NEIGHBORS"

► WHEN QUERY IS SUBMITTED, NOTIFICATION WILL BE DELIVERED TO DEFINED "NEIGHBORS" GROUP



- TARGET AUDIENCE IS ADULTS LIVING IN SUBURBS
- ► LIVE, DOCUMENTED PRODUCT
- MARKETED
- **200 ACTIVE USERS**



MEETING 2

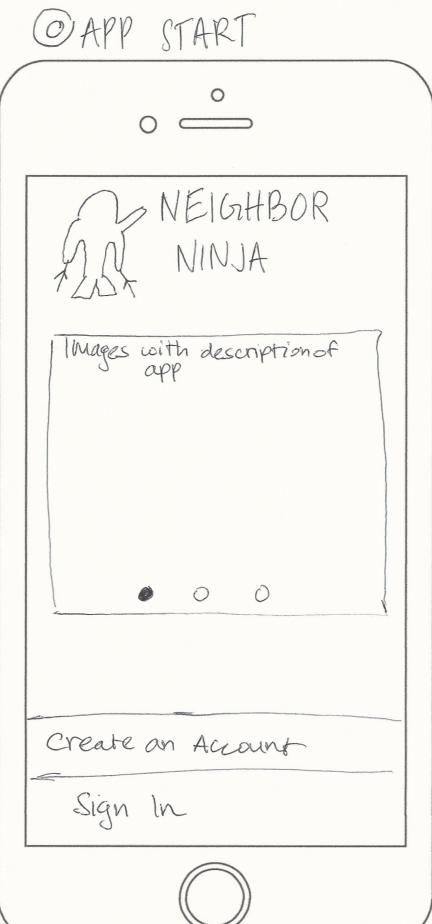
NEIGHBOR NINJA

UPDATES GETNNINJA.COM

IOS APP WITH PUSH NOTIFICATIONS

- NO SET ADDRESS
 - WILL TAKE CURRENT LAT/LONG OF USER
- TWO SIMPLE FEATURES FOR USERS
 - REPORT SUSPICIOUS ACTIVITY
 - ► VIEW USER-INPUTTED OR POLICE-RECORDED ACTIVITY IN AREA
- RADIUS IS DEFINED BY USER AND CAN BE CHANGED







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2







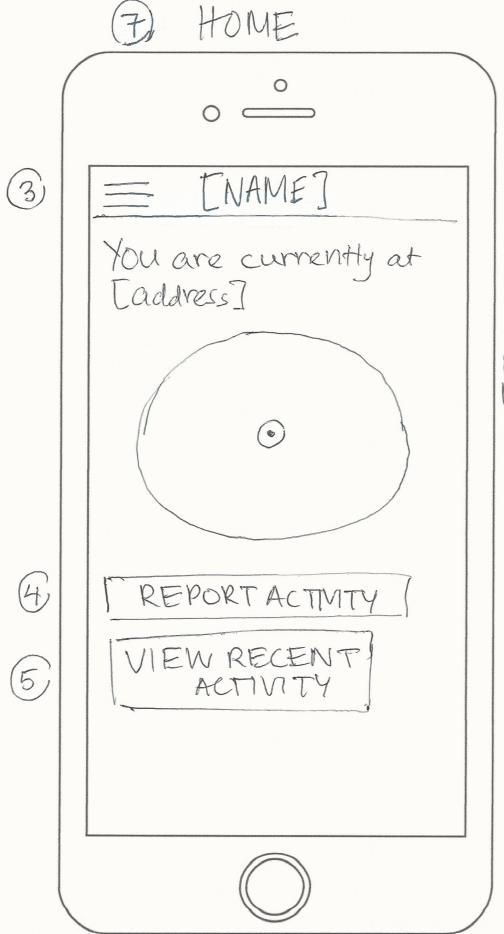






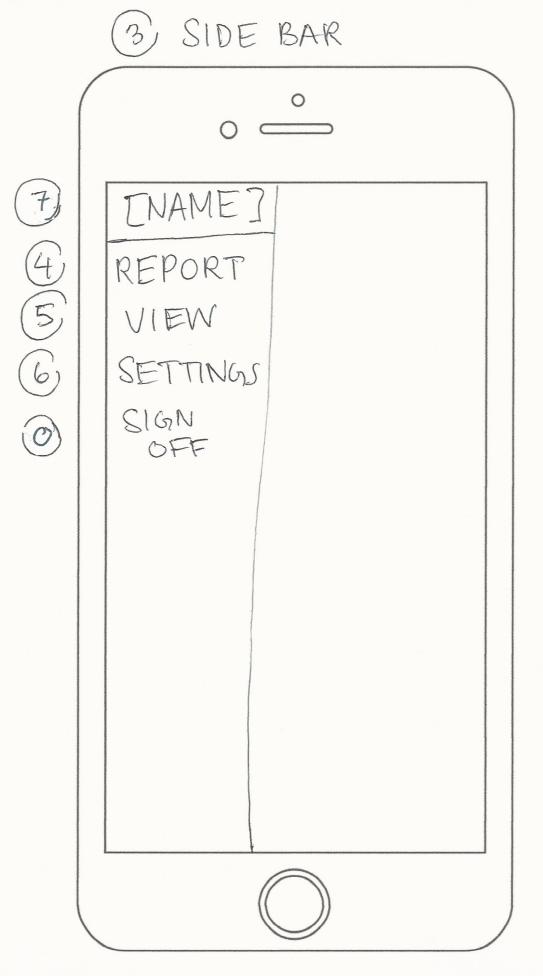
7



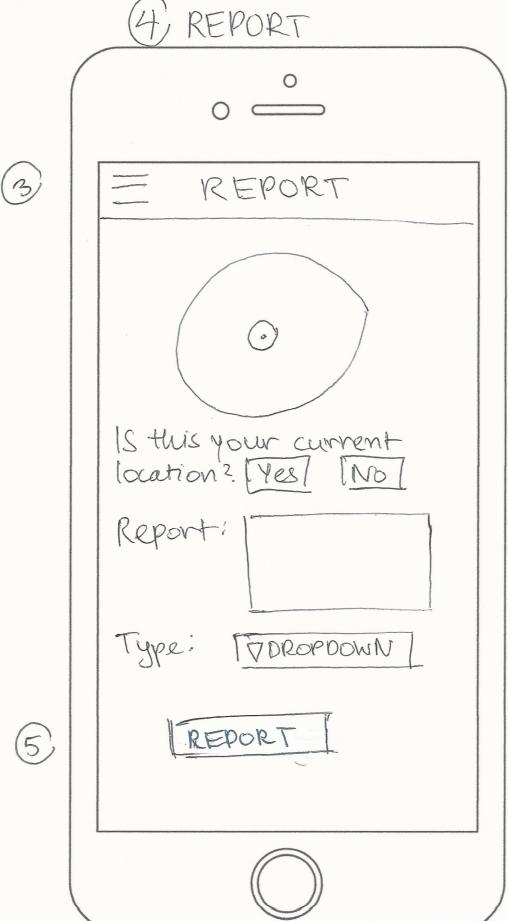


Location on Map with Radius









Location on map with

If "No" >>> refreshes

Types: Arrest Arson Assault Burglary Robbers Shooting Theft Vandalism Other Unknown



(3)

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Details:

(Buser inputted us police room 0 VIEW recorded
2 Type
3 Time
4 Location
8 Report Click for more details Type Time Location



0 —

6 SETTINGS

= SETTINGS

RADIUS; 10.2 mi

PUSH NOTIFICATIONS OFF

LOCATION SETTINGS

SIGN OFF

SETTINGS APP



- **SOCRATA.COM**
 - **CRIMEREPORTS.COM**
 - SPOTCRIME.COM
- GOOGLE MAPS API
 - SHOW LAT/LONG LOCATION ON MAP WITH RADIUS



RESOURCES

- ► HTTP://WWW.MOVABLE-TYPE.CO.UK/SCRIPTS/ LATLONG-DB.HTML
 - CREATES UPPER AND LOWER BOUNDS
 - EFFICIENT
 - FINDS OTHER USERS WITHIN CIRCLE DEFINED BY RADIUS



MEETING 3

NEIGHBOR NINJA

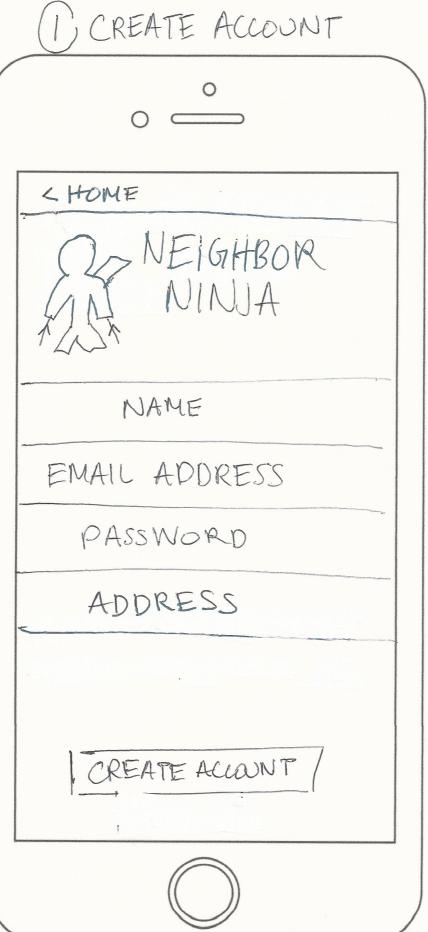




2



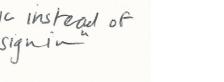




(7)

updete:
added address update: prompts for location and notifications

update: back instead of "signin





A NEIGHBOR

NINUA

NINUA

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NINUA

NINUA

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NINUA

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NINUA

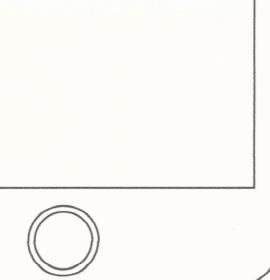
NINU

EMAIL ADDRESS

PASSWORD

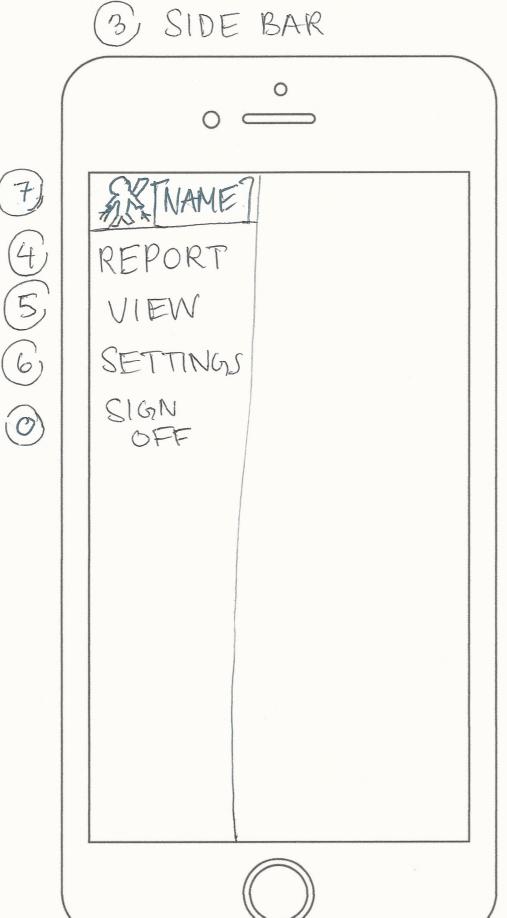
SIGN IN

7



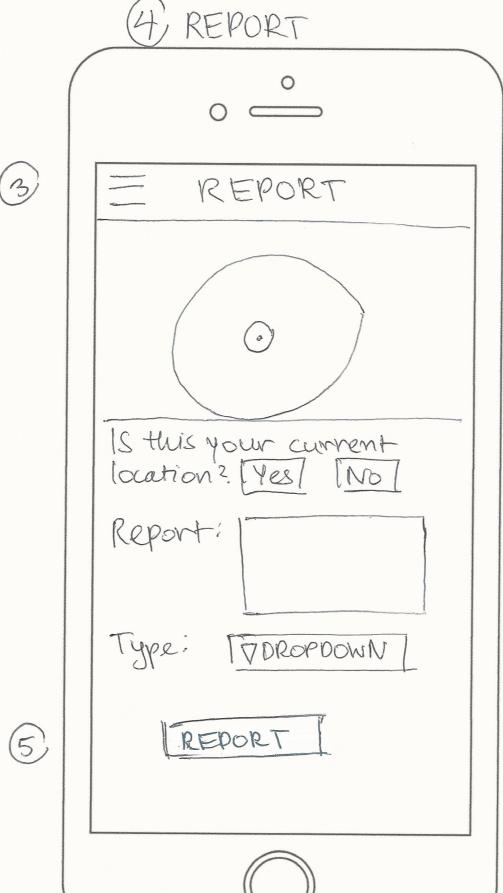
back button instead of create ace





update: insert logo





Location on map with radius

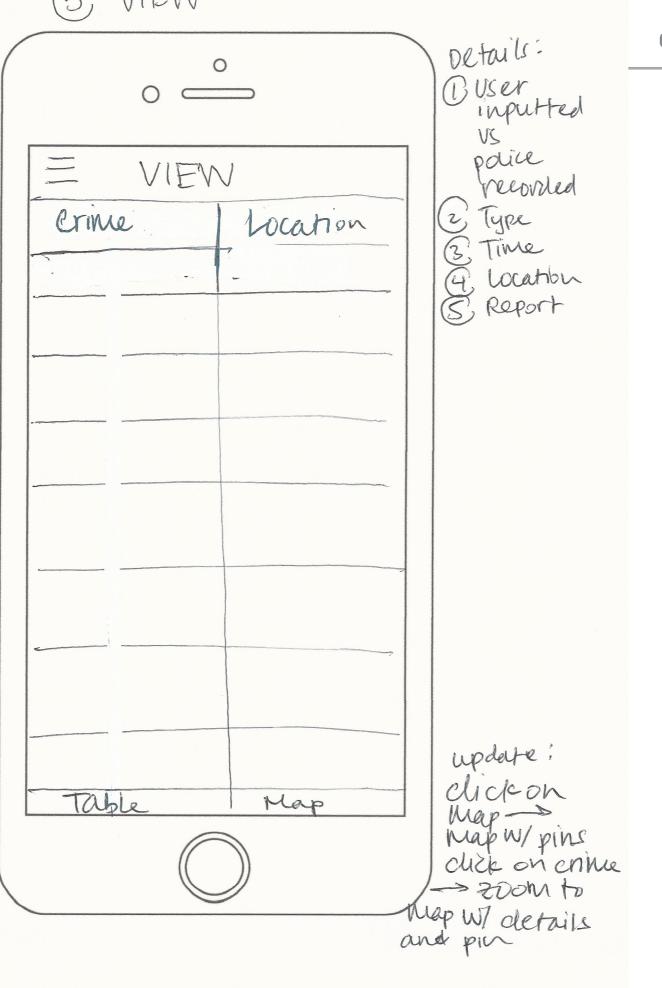
refreshes

Types:
Arrest
Arson
Assault
Burglary
Robbery
Shooting
Theft
Vandalism
Other
Unknown



VIEW

(3)



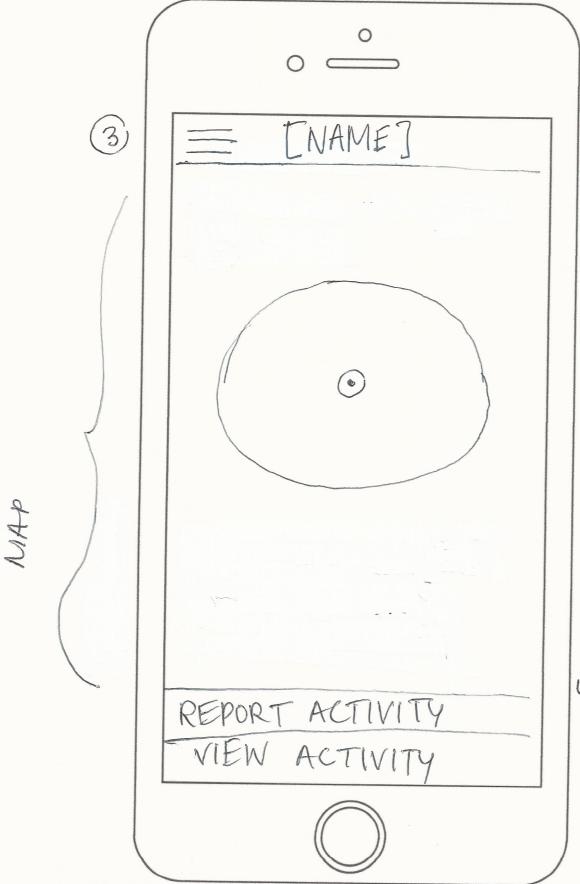


GETNNINJA.COM

(6) SETTINGS = SETTINGS RADIUS; O.2 mi PUSH DOTIFICATIONS OFF LOCATION SETTINGS Type of TVTYPE / Notifications Warted

SETTINGS APP update: removed sign off button -type setting





HOME

update:
remove
Myou are
currently
out 1/2
LOCation on
Map With
Radius

update: shift buttons down



UPDATES GETNNINJA.COM

► USER REPORT: CURRENT LOCATION USER NOTIFICATION: HOME LOCATION

- APPLE MAPS
- ALAMEDA COUNTY BETA



OBSTACLES GETNNINJA.COM

- ALAMEDA COUNTY DATA
 - SOCRATA API
- DATABASE CONNECTION
- CIRCLE ON MAP VIEW
- ► LABEL RELOADS AFTER I QUIT AND REOPEN APP



TOPICS TO COVER GETNNINJA.COM

- DATABASE DESIGN
- DEMO ACCOUNT REGISTRATION, LOGIN, DUMMY HOME PAGE
- SODA SDK TEST



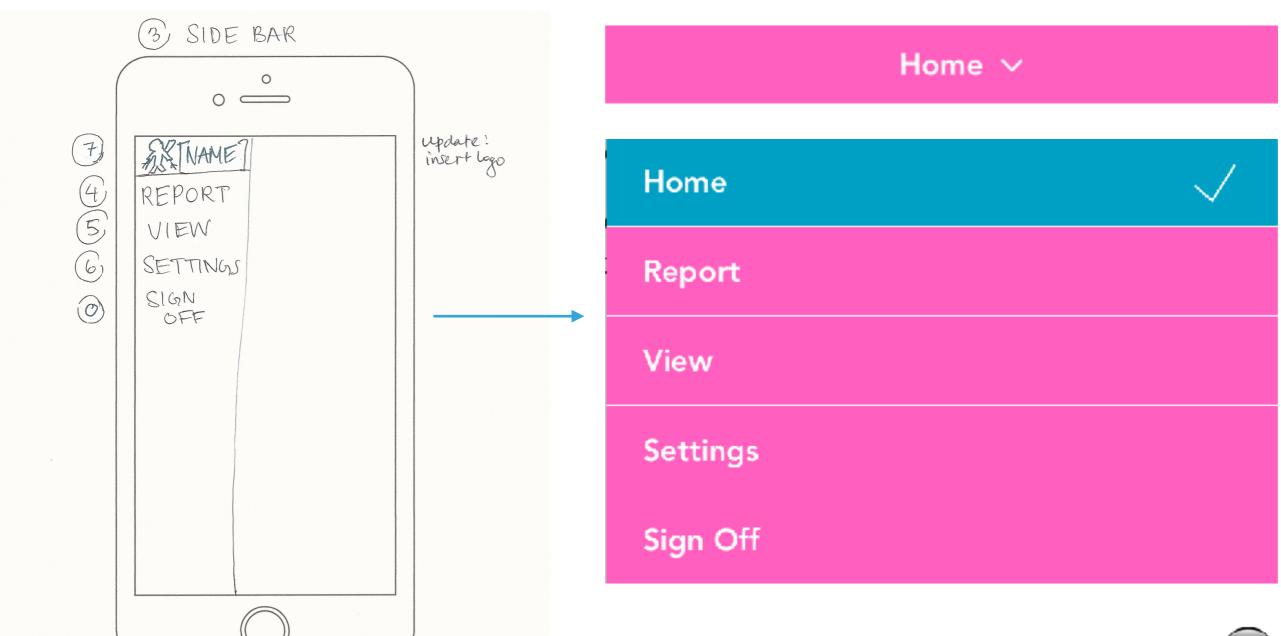
- **▶ JULY 1 JULY 22: BUILD**
- ► JULY 22 JULY 29: DESIGN (MAKE MORE APPEALING), FINAL TOUCH UPS
- ► JULY 29 AUGUST 5: MARKET END OF INTERNSHIP
- AUGUST 5 AUGUST 26: ALAMEDA COUNTY BETA
- ► AUGUST 26 FUTURE: CHANGES BASED ON BETA, EXPAND TO OTHER COUNTIES



MEETING 4

NEIGHBOR NINJA

NAVIGATION BAR





- DESIGN
 - PINK THEME TBD
- ADDRESS FIELD
- ► DB CONNECTION
- ► UPDATED DB TABLE (DESCRIPTION)

O 1		Type	Collation	Attributes	Null	Defau∣t	Extra	Action		
0 '	ID 🔐	int(11)			No	None	AUTO_INCREMENT	Change	× Drop	→ More
_ 2	timestamp	timestamp			No	CURRENT_TIMESTAMP		Change	× Drop	✓ More
3	type	varchar(255)	latin1_swedish_ci		No	None			× Drop	▼ More
4	userid	int(11)			No	None			X Drop	▼ More
_ 5	lat	float(10,6)			No	None		Change	× Drop	→ More
_ 6	Ing	float(10,6)			No	None		Change	× Drop	▼ More
7	description	varchar(255)	latin1_swedish_ci		No	None			× Drop	▼ More



- VIEW REPORTED CRIMES BASED ON ADDRESS
- ► LAT/LONG OF ADDRESS/CURRENT LOCATION BEING SAVED
- LOCAL VS DB INFO



- REMOTE ACCESS TO DB
 - ► **GETNNINJA.COM**
 - ► INFO/BLOG
- SEPARATING LAT/LONG STRING FROM COUNTY DB TO MAP IT

Location 1	⊕≔
(37.67705445°, -122.11298064°)	
(37.71437982°, -122.02231781°)	
(37.66655037°, -122.10000611°)	
(37.66655037°, -122.10000611°)	
(37.66655037°, -122.10000611°)	
(37.68589075°, -122.06327902°)	
(37.69781444°, -122.10989918°)	
(37.75294423°, -122.16037789°)	
(37.75294423°, -122.16037789°)	
(37.69781444°, -122.10989918°)	
(37.76260104°, -122.20690898°)	



SCHEDULE GETNNINJA.COM

► THIS WEEK:

- INVITE FUNCTION
- SEARCH FUNCTION
- ALL BASIC SCREENS
 - REPORT/SETTINGS
- "NEIGHBORS" SCRIPT
- NEXT WEEK
 - ► PUSH NOTIFICATIONS (DEV ACC, AWS)



- CONSOLIDATE OLD CRIMES
- IDENTIFY DUPLICATES
 - COMPARE LAT/LONG & TIME



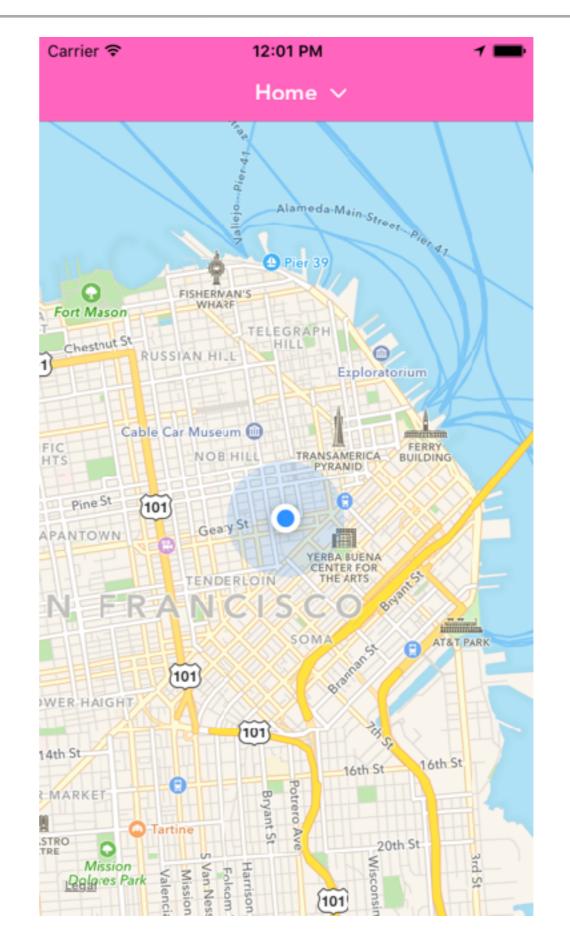
MEETING 5

NEIGHBOR NINJA

- GOT RID OF "BACK" BUTTON ON MOST SCREENS
- MADE LAT/LONG LONGER IN DATABASE FOR MORE ACCURATE LOCATIONS (15, 6) TO (15, 8)
- "CRIMEREPORT" DB
- "NEIGHBORS" SCRIPT
 - BOX AROUND USER

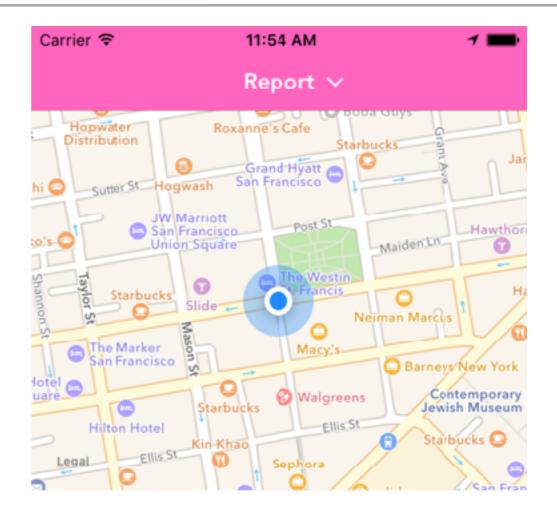


HOME SCREEN





REPORT SCREEN



Radius: 10000.0 m

Description of Activity

Arrest

Arson

Assault

Submit Report







Current Radius: 10000.0 m

New Radius

Change Radius



SEPARATING LAT/LONG FROM STRING



SCHEDULE

THIS WEEK:

- SWITCH TO AWS
- SIGN UP FOR APPLE DEV ACCOUNT
- IMPLEMENT PUSH NOTIFICATIONS
- ► PARSE LAT/LONG STRING TO DISPLAY ON MAP
- SEARCH FUNCTION
- SUBMITTED CRIMES IN TABLE



SCHEDULE GETNNINJA.COM

► NEXT WEEK:

- LOCAL TESTING
- AUTO-LAYOUT
- IN TWO WEEKS:
 - PUBLISH TO APP STORE
 - MARKET
 - START ALAMEDA COUNTY BETA
 - UPDATE BASED ON FEEDBACK



FUTURE UPDATES GETNNINJA.COM

CURRENT LOCATION AS ADDRESS WHEN SIGNING UP

- TYPES OF PUSH NOTIFICATIONS WANTED
- IDENTIFYING SPAM/DUPLICATES
- CONSOLIDATING OLD CRIMES



MEETING 6

NEIGHBOR NINJA

- CONNECTED TO AWS
 - CAN BE ACCESSED BY ANY IOS DEVICE
- ► FINDING GLITCHES WHILE TESTING
- TAB BUTTON
- MAPPING CRIMES



RUNNING ON SIMULATOR VS RUNNING ON DEVICE

SETTING UP EC2 SERVER ON AWS



- **▶** 7/21 − 7/28
 - PUSH NOTIFICATIONS
 - LOCAL TESTING AND UPDATES
- **▶** 7/28 8/4
 - ► DESIGN (AUTO-LAYOUT, VISUALLY APPEALING)
 - ► UPDATE WEBSITE (REDESIGN FOR BETA)
 - ► PUBLISH FOR BETA (INVITE CODES)



- **▶** 8/18 − 8/25
 - CONTINUE WITH UPDATING BASED ON FEEDBACK FROM BETA USERS
 - UPDATE WEBSITE
 - ► END BETA; ALLOW ALL USERS
 - START MARKETING (POLICE DEPARTMENT, SOCIAL MEDIA)



MEETING 7

NEIGHBOR NINJA

- SERVER REMOTE ACCESS
- PUSH NOTIFICATIONS THROUGH FIREBASE
- DESIGN
 - AUTO-LAYOUT



RETRIEVING DEVICE/INSTANCE ID TO SEND NOTIFICATION TO SINGLE DEVICE



- REFINE MAP FEATURE (BUGS)
- PUSH NOTIFICATIONS
- REFORMAT WEBSITE
- TESTING
- MINOR UPDATES
 - SET MAXIMUM RADIUS
 - ADD BACK BUTTONS WHERE NEEDED
- DEPLOY AS BETA



- RECEIVE FEEDBACK AND IMPROVE
- START MARKETING
- MAKE SURE MAJOR BUGS ARE FIXED BEFORE RELEASING TO PUBLIC
- SECURITY



- GET INFO FROM DB INSTEAD OF LOCALLY
- INVITE FUNCTION
- SEARCH BAR
- DISPLAY USER-INPUTTED CRIMES ON HOME MAP
- CURRENT LOCATION INSTEAD OF HOME ADDRESS DURING SIGN UP
- TYPES OF PUSH NOTIFICATIONS
- ► IDENTIFYING SPAM/DUPLICATES

