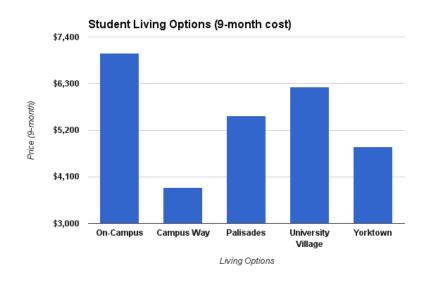
# College Living

Blake Dunn, Derek Overlock, Lumin Shi

## System Definition

- On-campus housing at UA is expensive
- \* Off-campus housing in Tuscaloosa is cheaper (9 month price of rent)
- \* College students need a safe and convenient way to interact



## System Scope

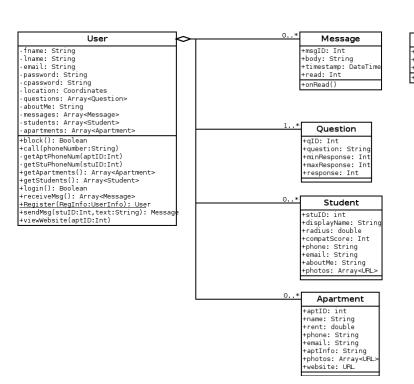
- \* College Living will help localize and refine the search for roommates and apartments
- \* Users will initially answer a set of questions
  - \* Answers are used to rate compatibility with other users
- \* User and Apartment Information will be stored on remote database
- \* Apartment Contacts will use web-service
- \* Users can find other users to interact with

## System Domain



(Apache w/ PHP)

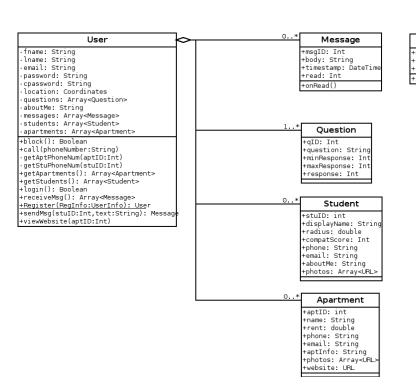
## Class Diagram



### HTTPPost +url: URL +data: JSON +callback: HTTPPostCallback +send()

- \* User Class
  - \* Logged-in user
  - \* Contains local apartments, students, and messages
  - \* Methods (Logging In, Registering, Messaging, etc.)
- \* Student/Apartment Class
  - \* Name, distance, profile, photos, etc.
  - \* Get/Set functions
- \* Message Class
  - \* Object for message transferring

## Class Diagram (cont'd)



### HTTPPost +url: URL +data: JSON +callback: HTTPPostCallback +send()

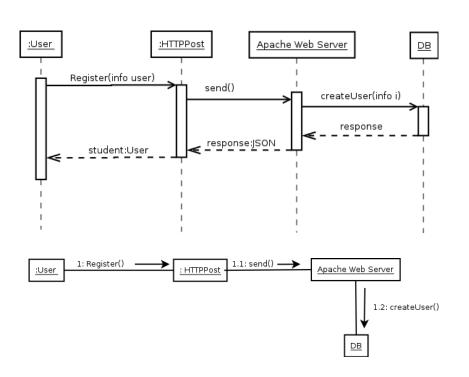
#### \* Question Class

- \* Questions in questionnaire
- \* Used with registration
- Used for determining compatibility

#### \* HTTPPost

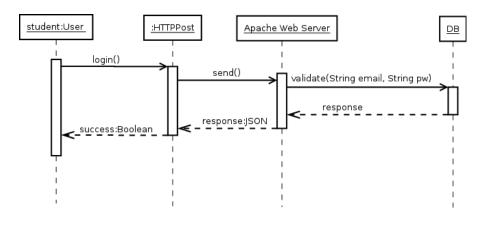
- \* Bridge between device and server
- \* HTTP POST request with JavaScript Object Notation (JSON) body
- Response will be JSON decoded string

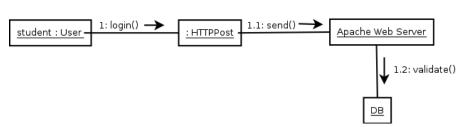
User Registration



- \* User.Register() will send user information to server
- \* Server will create user
- \* User.Register() will return initialized User object

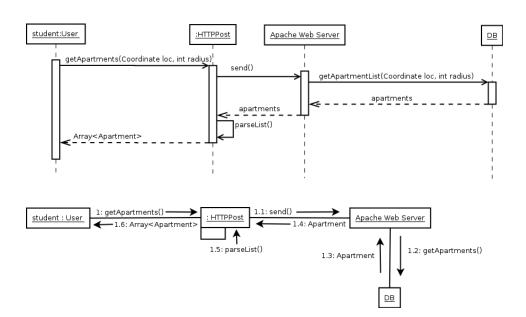
User Logging In





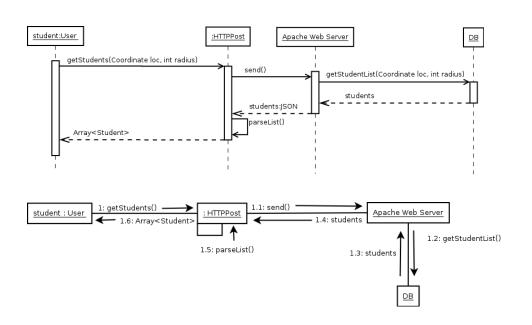
- \* User calls login with username and password
- \* HTTPPost sends request to server
- \* Server validates login with DB
- \* Returns success boolean

Retrieving Local Apartment List



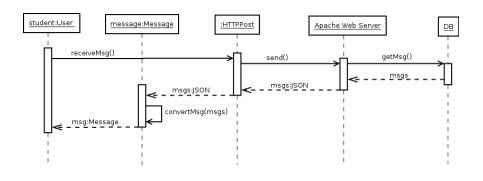
- \* User calls getApartment() with current location and search radius
- \* HTTPPost sends request to server
- \* Server queries DB and pulls local apartment records, returns to User

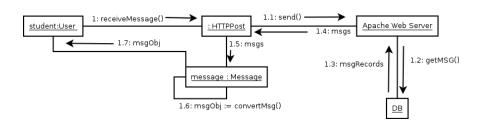
Retrieving Local Student List



- \* User calls getStudent() with current location and search radius
- \* HTTPPost sends request to server
- \* Server queries DB and pulls local student records, returns to User

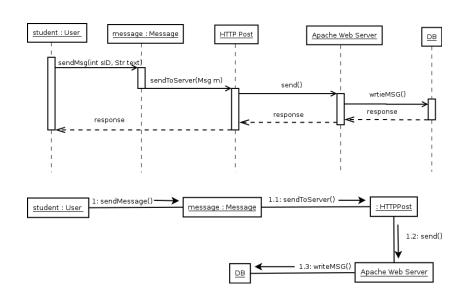
Retrieve New Messages





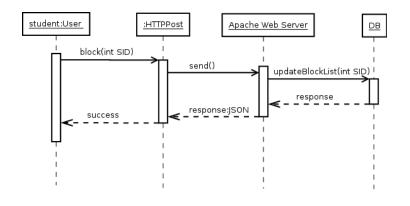
- \* User will call receiveMsg()
- \* HTTPPost will send request to server
- \* Server will get new messages from DB
- \* Server returns new messages to User

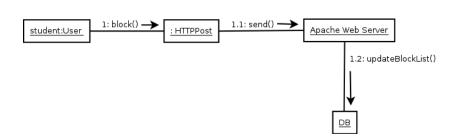
Sending Messages



- \* User will call sendMsg() with student ID and message content
- \* HTTPPost will send message to server
- \* Server will post message to DB for other user to retrieve

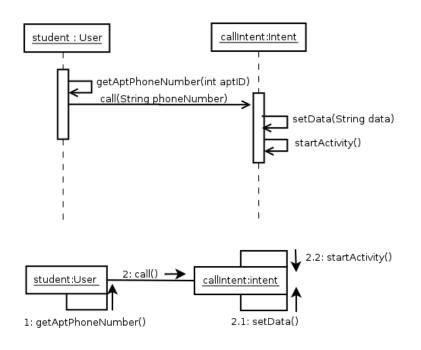
Blocking a User





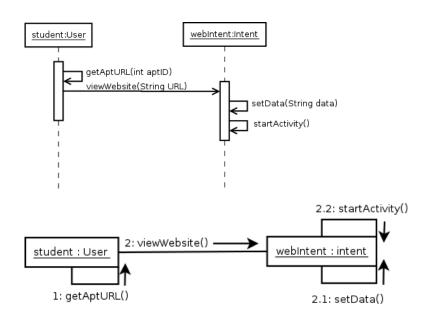
- \* User will call block() with student ID passed in
- \* HTTPPost will send request to server
- \* Server will update DB to reflect block

Calling an Apartment



- \* User calls getAptPhoneNumber() with apt ID to get phone #
- \* User calls call() with apt. phone #
- \* Intent is used to start call activity

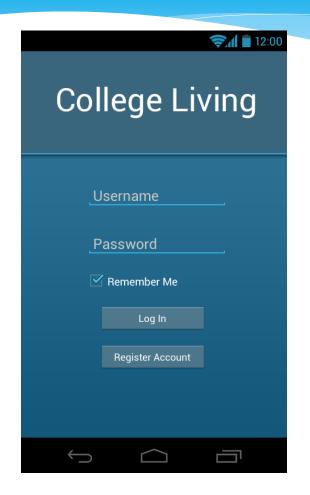
Viewing Apartment Website



- \* User will call getAptURL() with apt. ID
- \* User will call viewWebsite() with the URL
- \* webIntent is initialized with apartment URL

## Summary

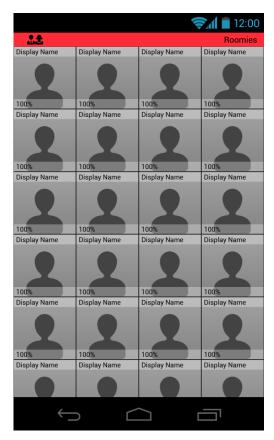
- \* No change of priorities
- \* System will utilize mobile OS, web server and database
- \* System will help students find roommates and a place to live
- \* Students can interact through messaging



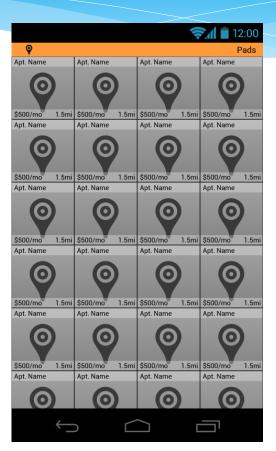
Log In Screen



Home Screen



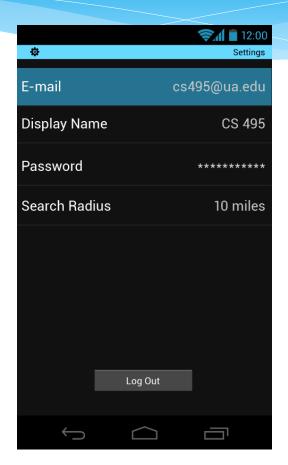
**Roomies Screen** 



Pads Screen



General Profile Screen



Settings Screen