



Trayvon McKnight, Anthony Ratliff, J'lesa Carr
CSC 490 – S. Mohanty



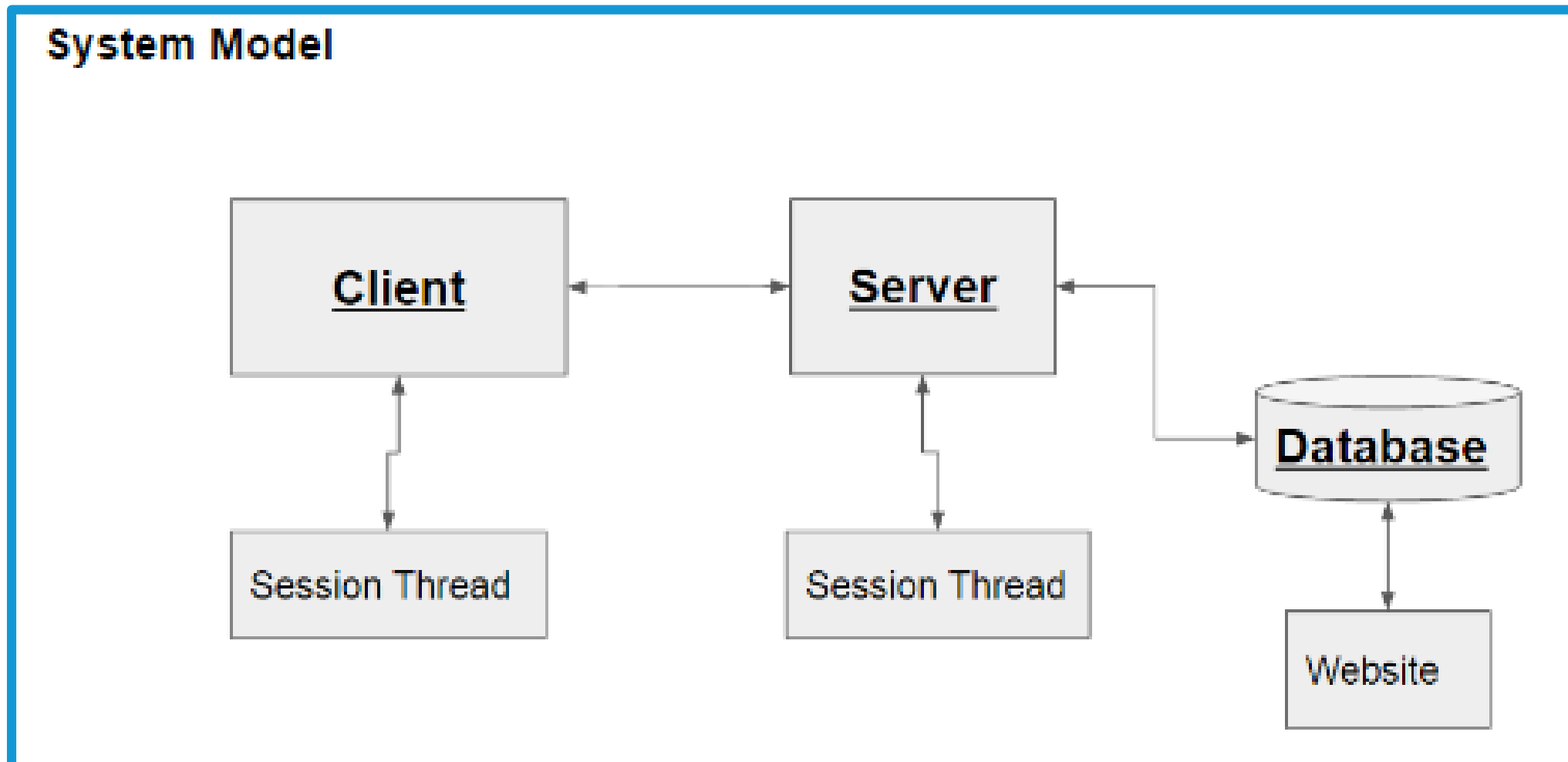
Source Code

<https://github.com/Metalaxe1/StudyBuddy/>



StuddyBuddy aims to allow students who share classes to communicate with their classmates and send/receive notes from the day.

The Study Buddy application is split into three different systems. There is a database that holds all of the students, professors and classes, a server that stores and make calls to the database, and a client which displays all of that information in a readable format for the user.

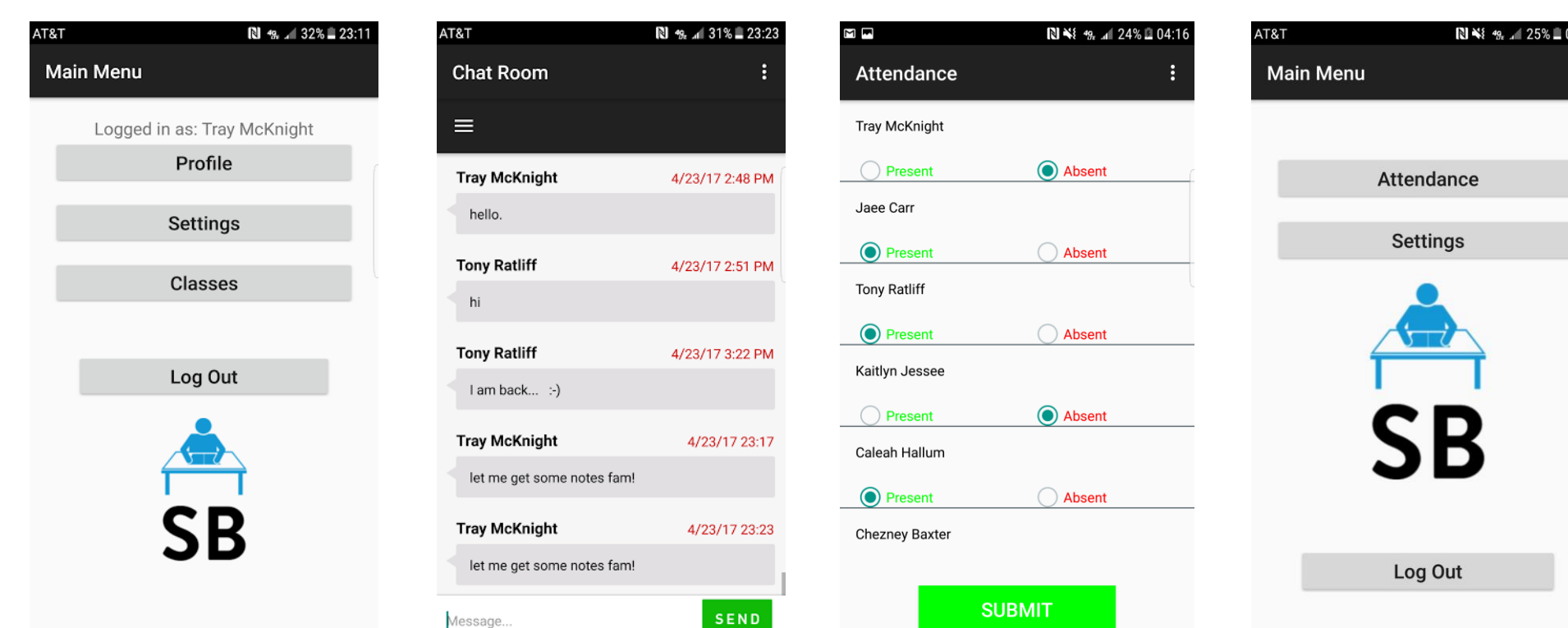
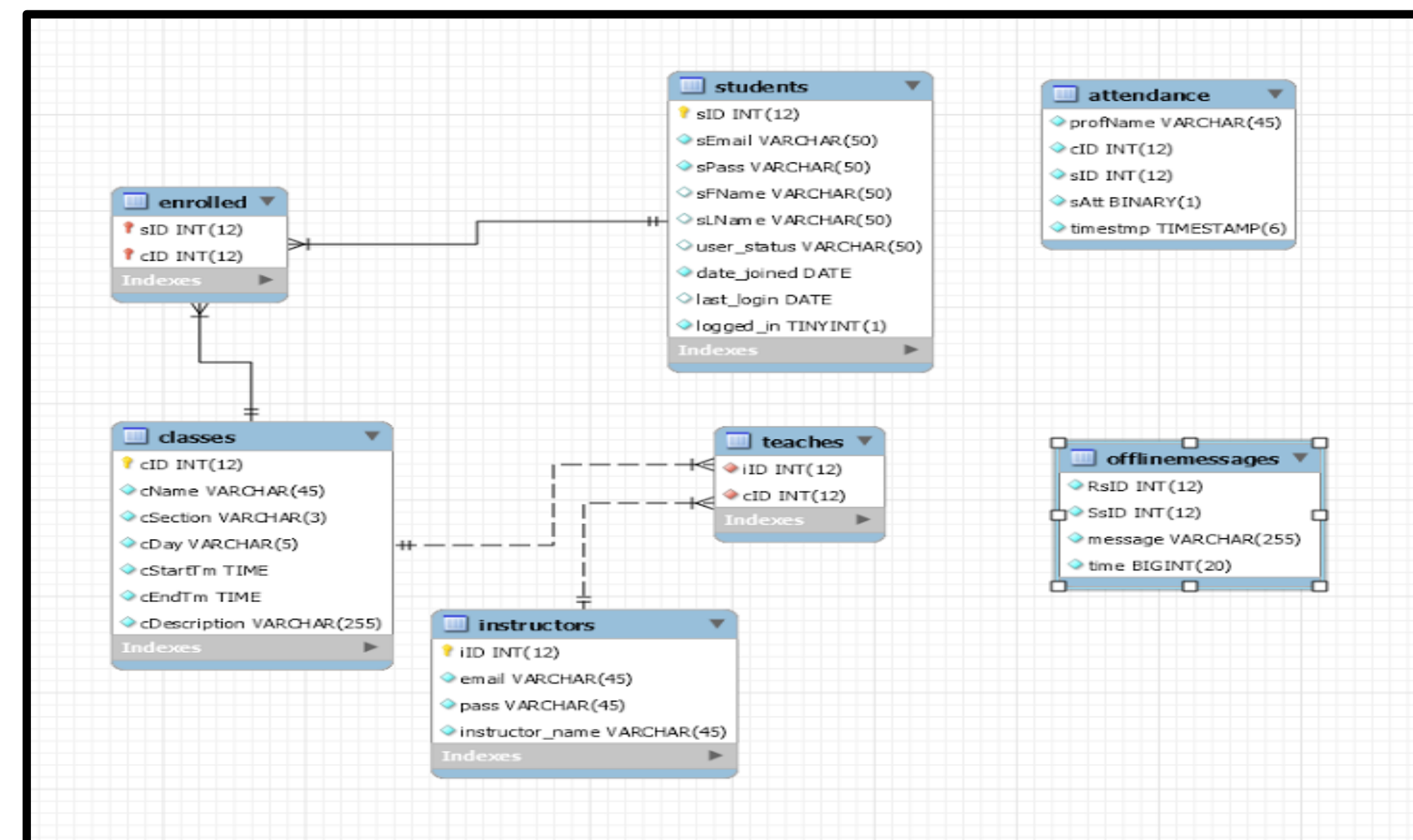


Project Requirements:

Physical	User Interface	Usability
<ul style="list-style-type: none">• Server - a hub used to communicate with multiple clients.• Database - for storing user information as well as login credentials.• Client - Android device running Android OS 4.4 Kit Kat or higher.	<ul style="list-style-type: none">• GUI - graphical user interface for interacting with the server and other users.• Login window - used to correctly identify a specific user to the server.• Profile Screen - used to view member profiles as well as edit their own.• Classroom Activity - a windows which displays all chat rooms and allows the user to choose which room to join.• Chatroom Activity - a window which allows for public chatting.• Private Chat Activity - a window which allows users to chat privately.• Registration Activity - a windows which allows users to sign up for an account from the application instead	<ul style="list-style-type: none">• Let user know when the server is unavailable.• Make user aware of any incorrect login responses.• Let a logged in user know when a class has been added to their profile.• Let user know when someone is sending a private message.• Let users know about incorrect class codes• Let user know they have signed in and signed out• Let the users know if there is no data, or internet service

Future Plans

- Incentivize sharing notes.
- Create scripts to automatically load data from course offerings to DB.
- Add more security features.
- Add Shutdown feature



Functional

- Allow for the creation of user accounts.
- Be able to assign users to the correct classroom groups.
- Provide user with easy to use interface for communication.
- Allow users to communicate with one another both publicly and privately.
- Allow users to upload photos of notes taken during class or scratch work which aids in the explanation of concepts.
- Allow professors to mark students absent or present.

Performance

- The server should have sufficient enough hardware to support a load no greater than the total number of students in the school.
- Network should be fast enough to support this same load.
- Latest, up-to-date dependencies should be installed at both server and client level.

Security

- Make sure the person someone is chatting with is actually the person they think they are chatting with.
- Ensure the messages are not being tampered with during transmission.
- Ensure conversations are not being eavesdropped upon.