

EMU Honors College

Mobile Application

Requirements Checklist and Coach

Design Document

Group Members:

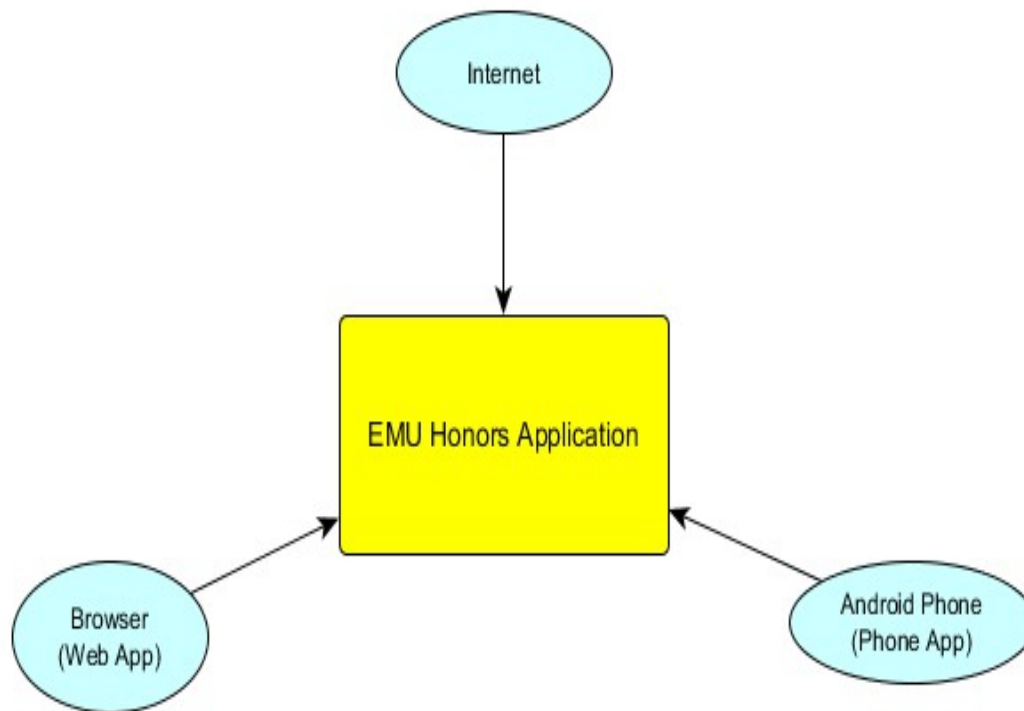
Stefano Prezioso
Jordan Saunders
Travis Taylor
Nicole Binkowski
Edward Gurnee

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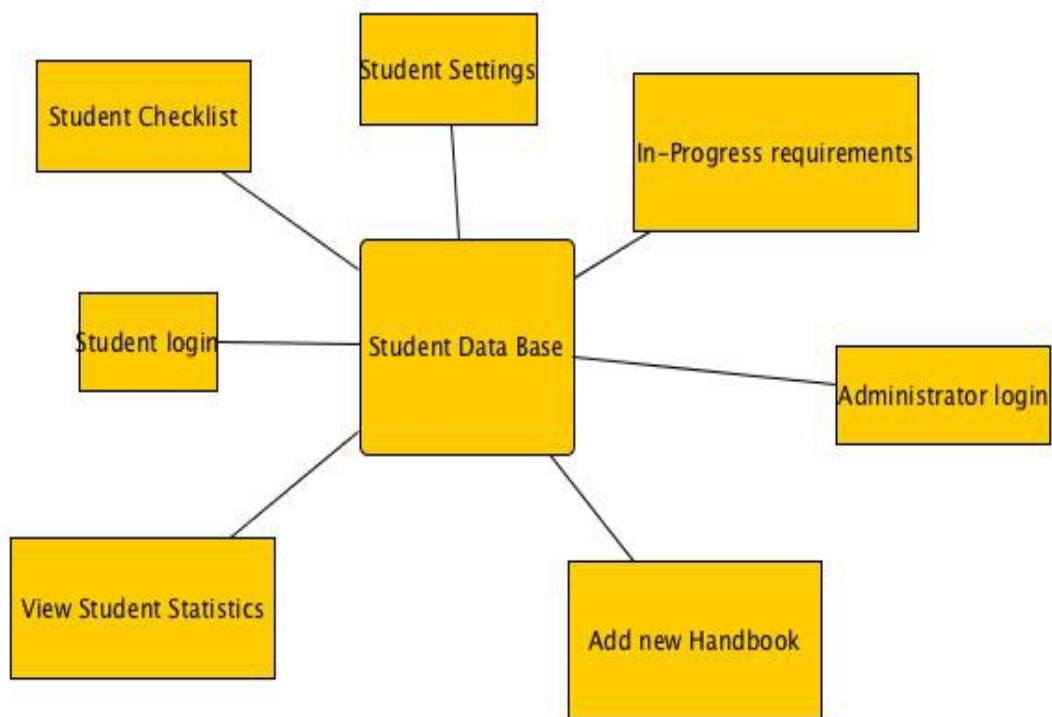
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System Structure

Context Model

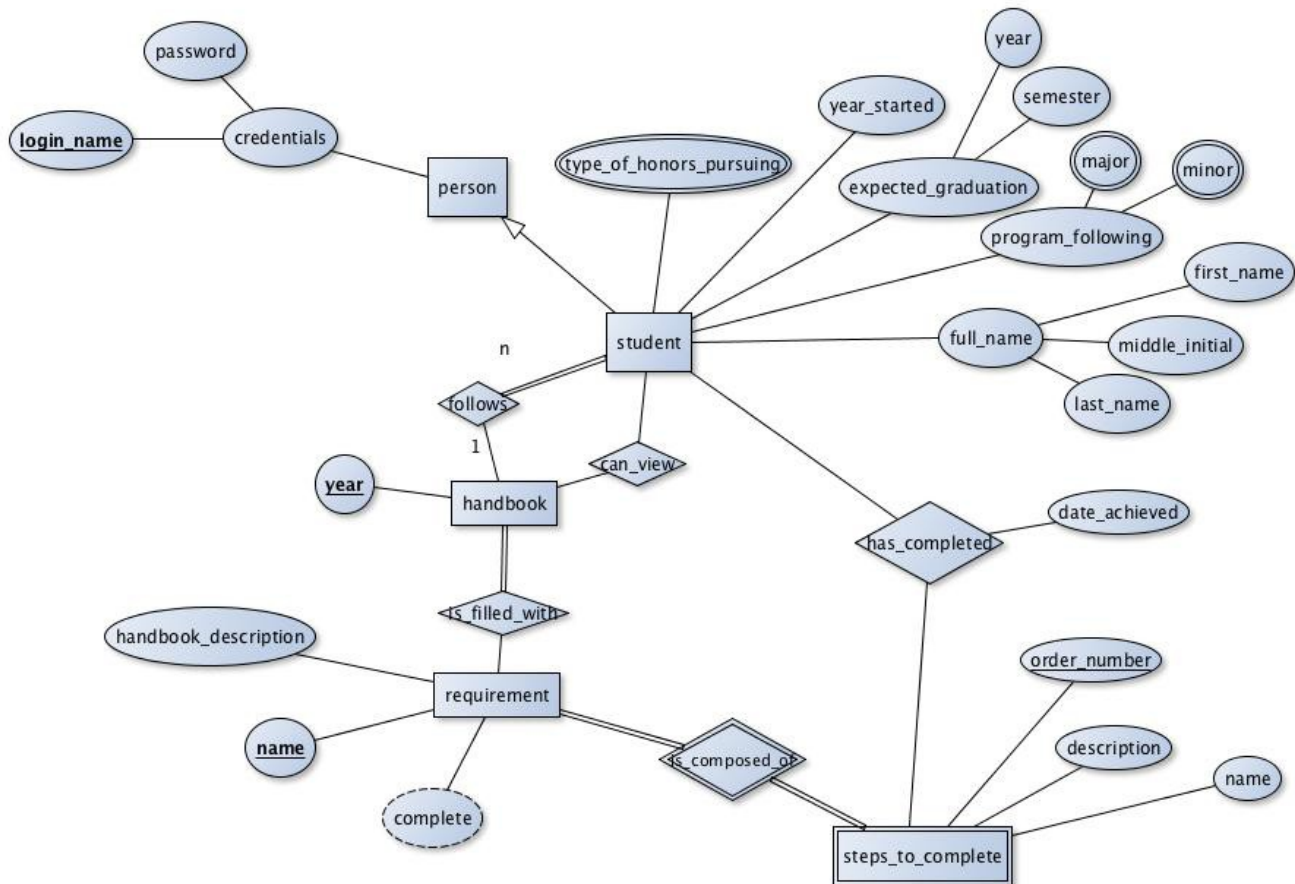


System Architectural Style – Data Centered

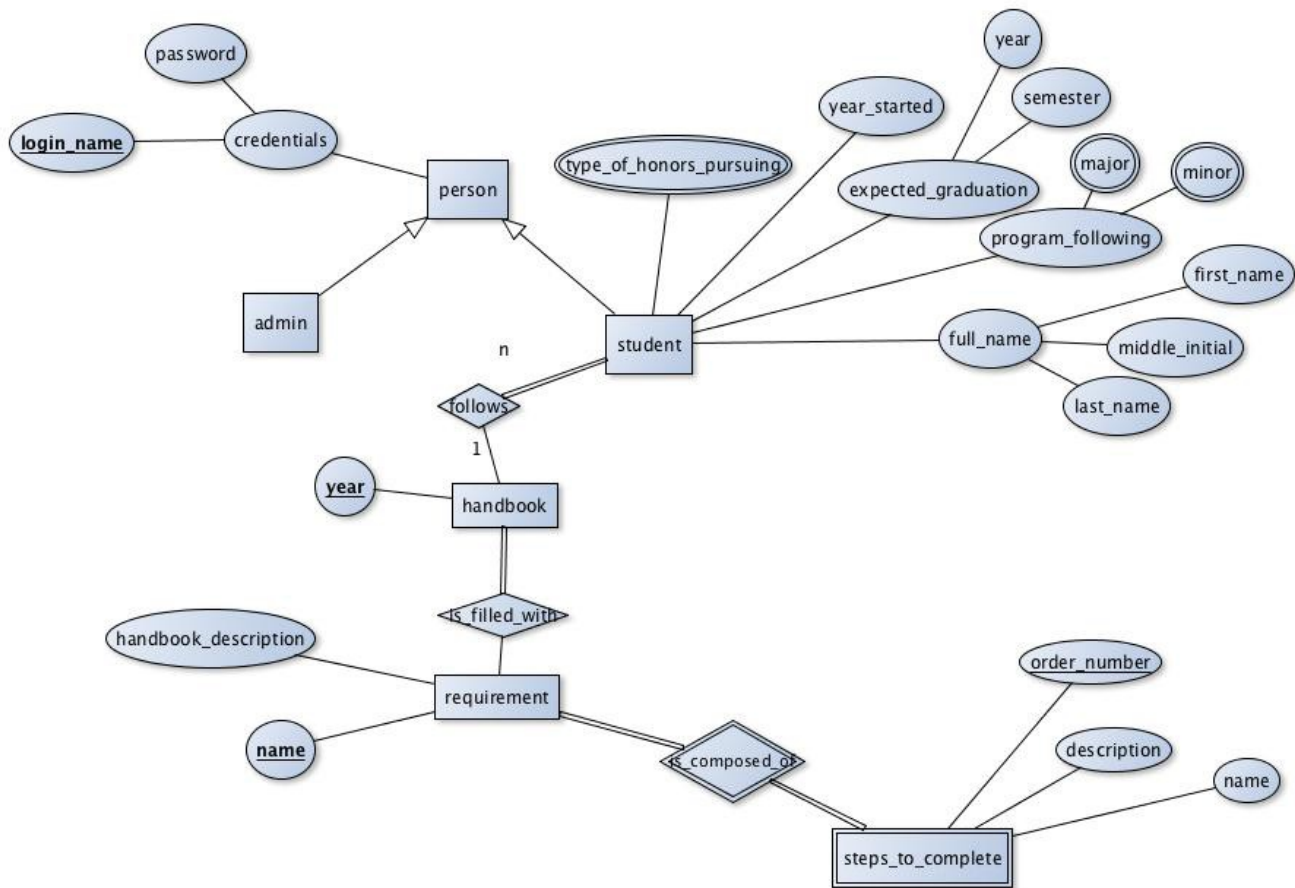


Data Model – ER Diagram

Local Android ER Diagram



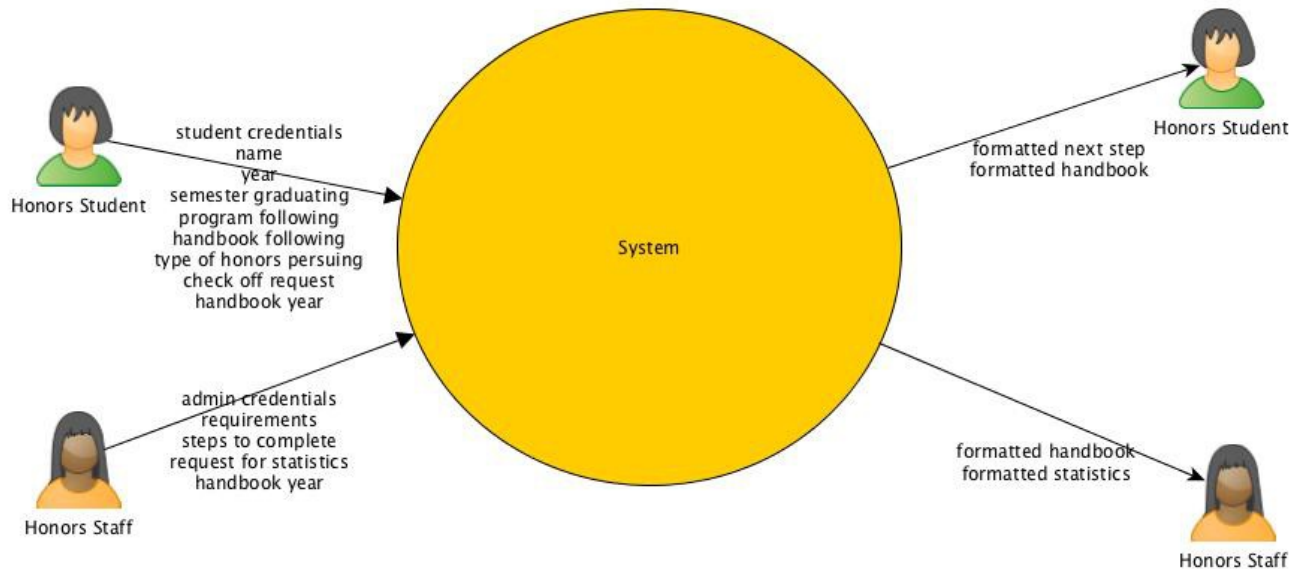
Remote Emich Server ER Diagram



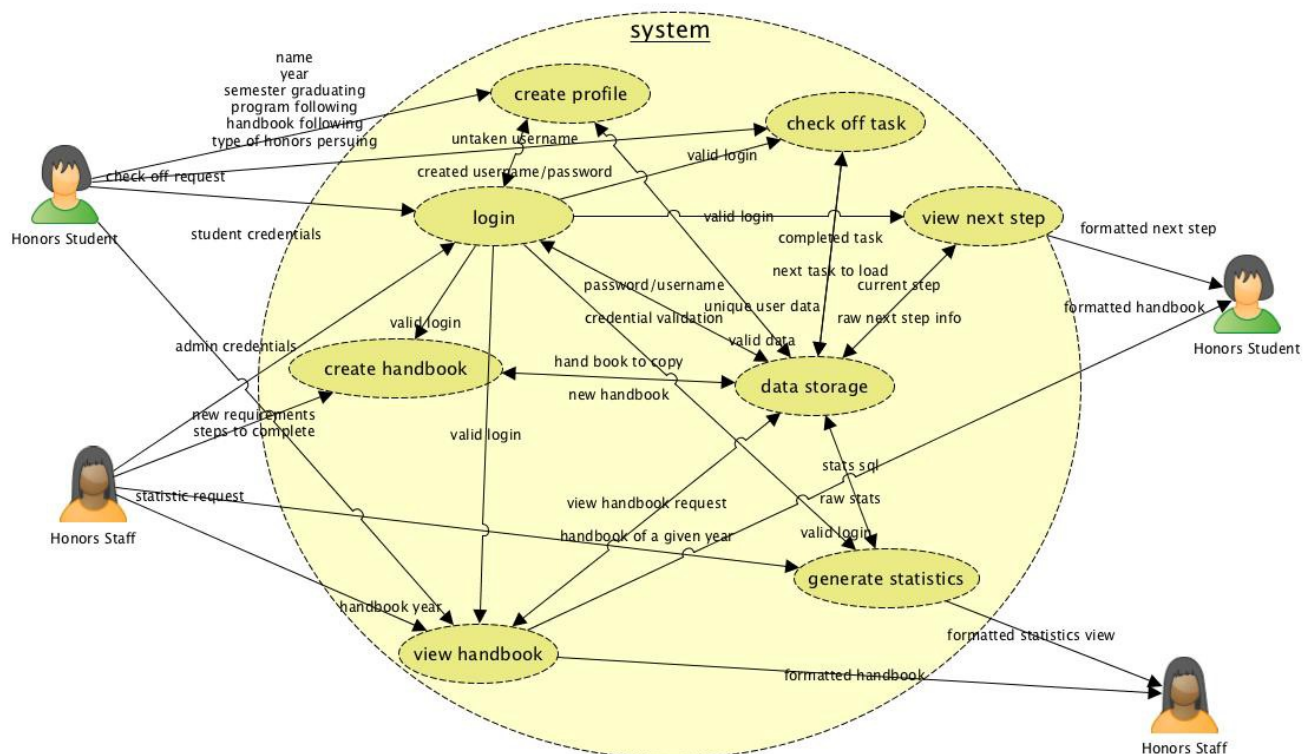
System Control

Functional Model – Data Flow Diagrams

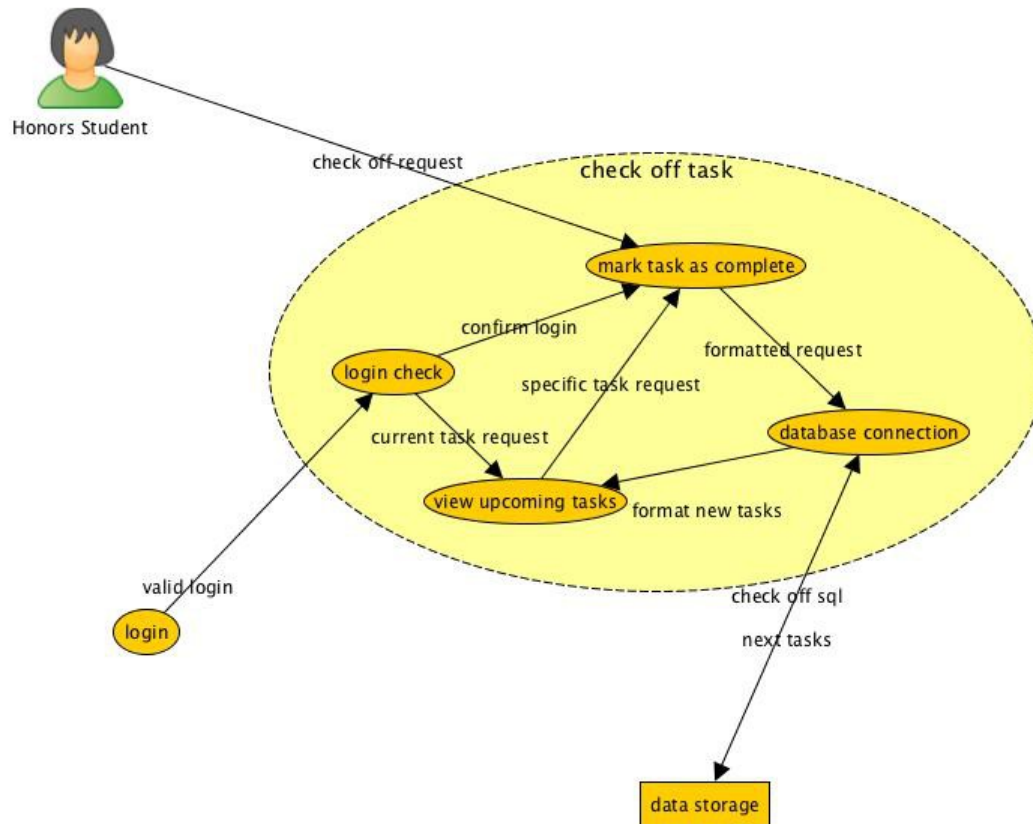
Data Flow Diagram Level 0



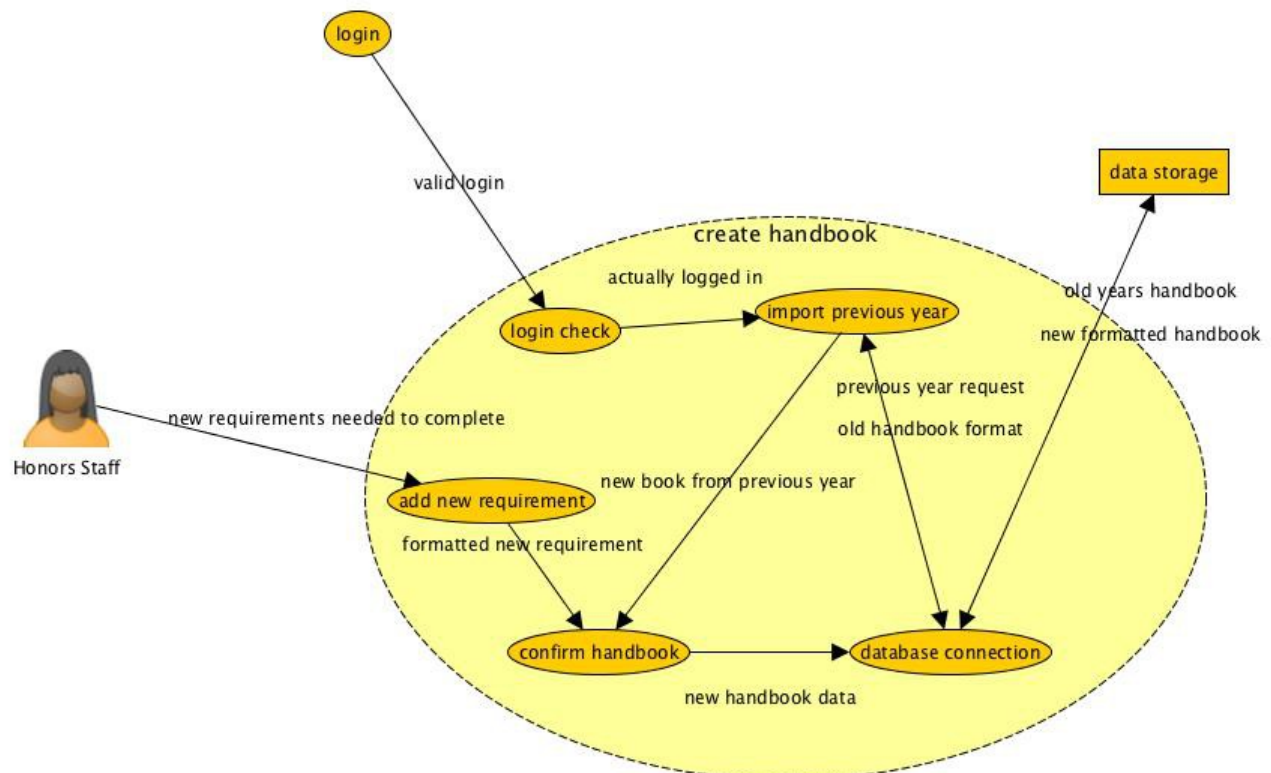
Data Flow Diagram – Level 1



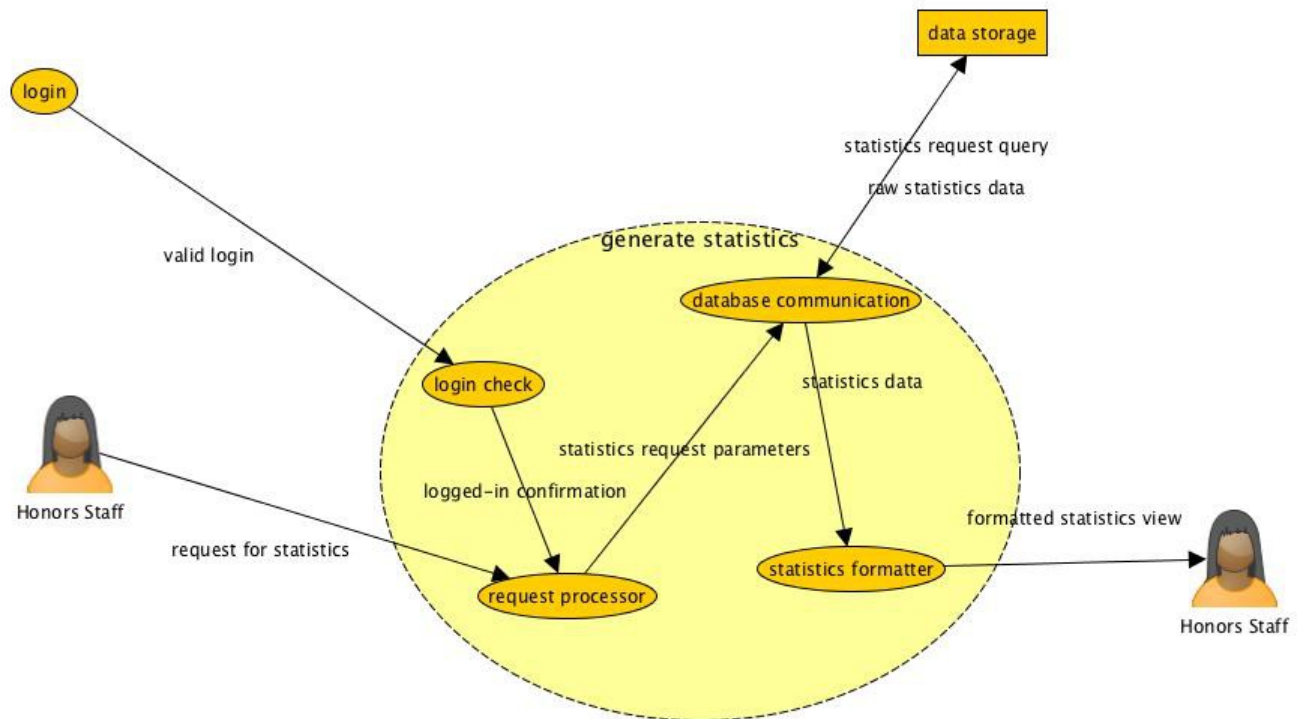
Data Flow Diagram – Level 2 – Check Off Task



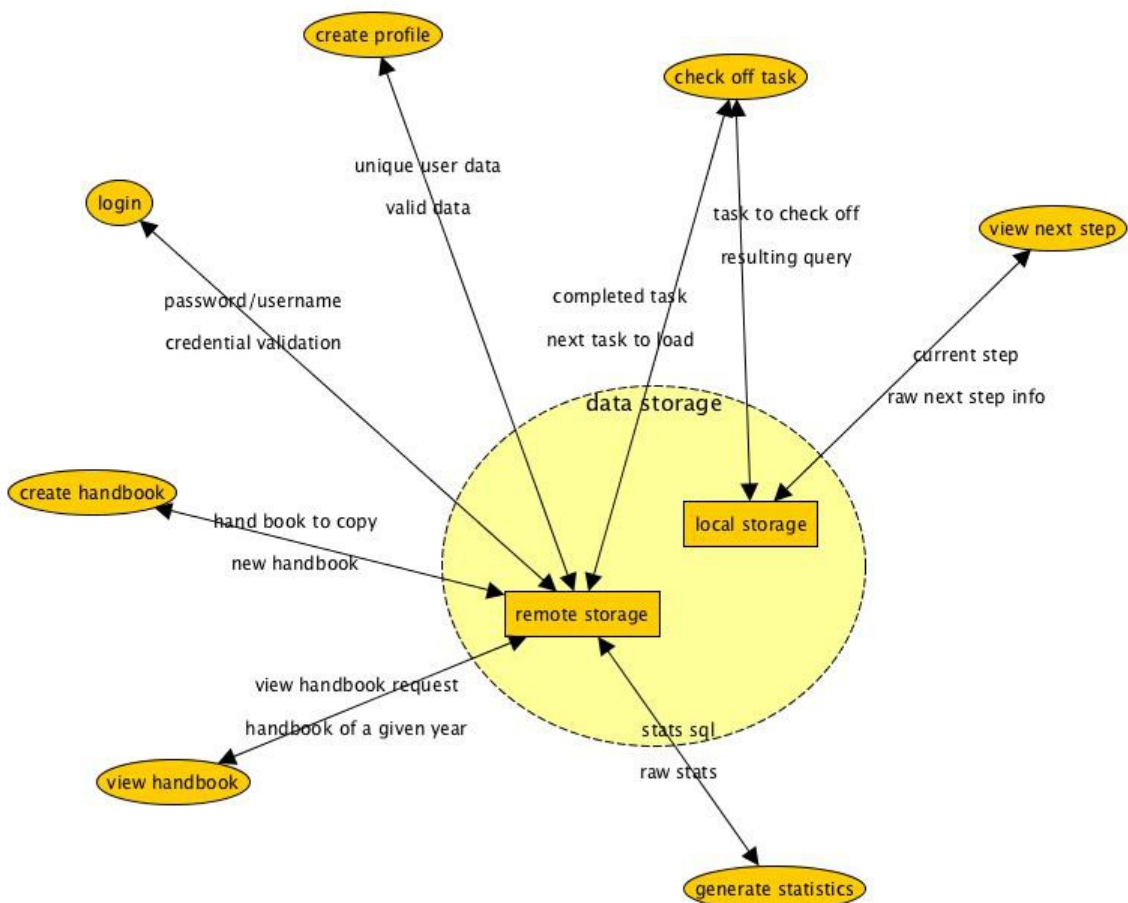
Data Flow Diagram – Level 2 – Create Handbook



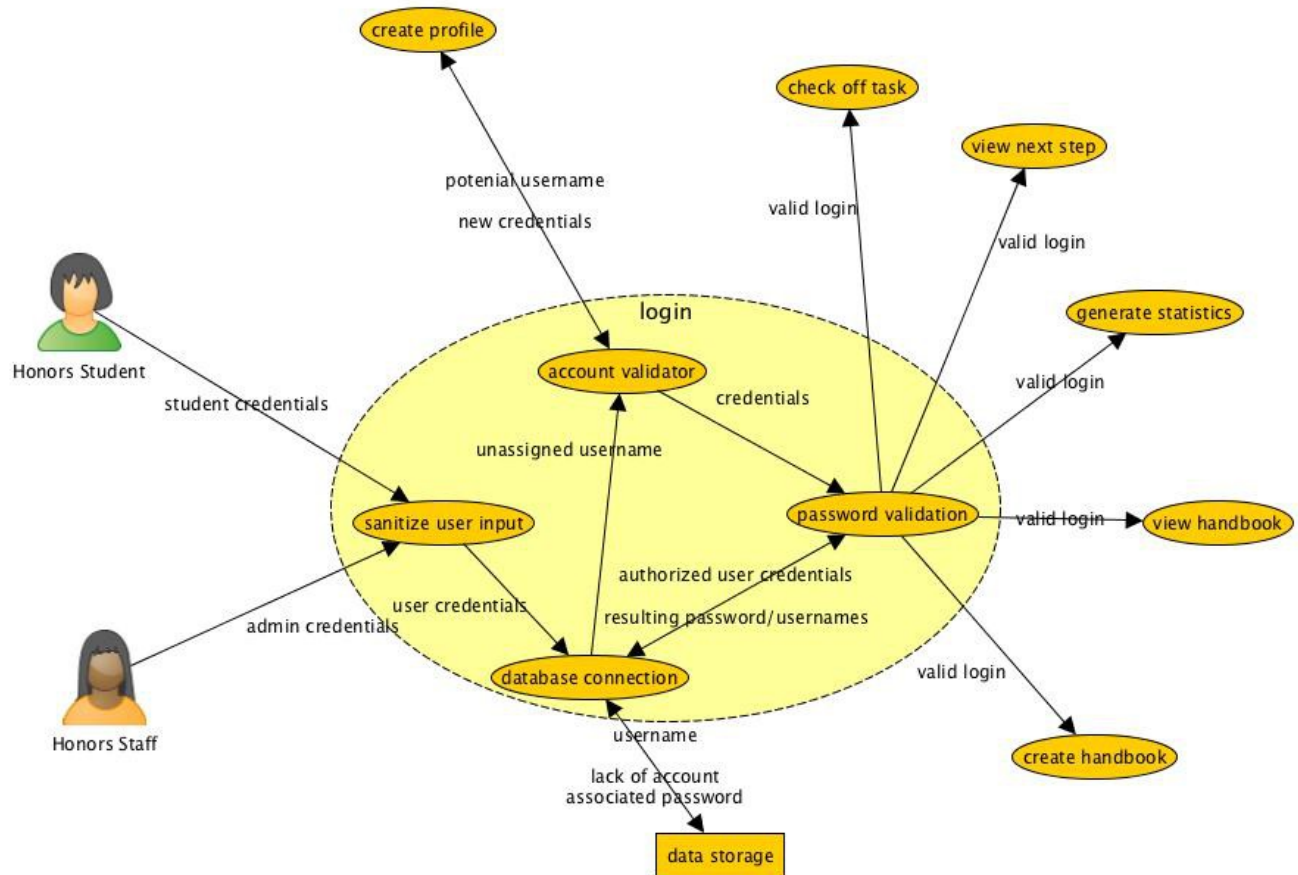
Data Flow Diagram – Level 2 – Generate Statistics



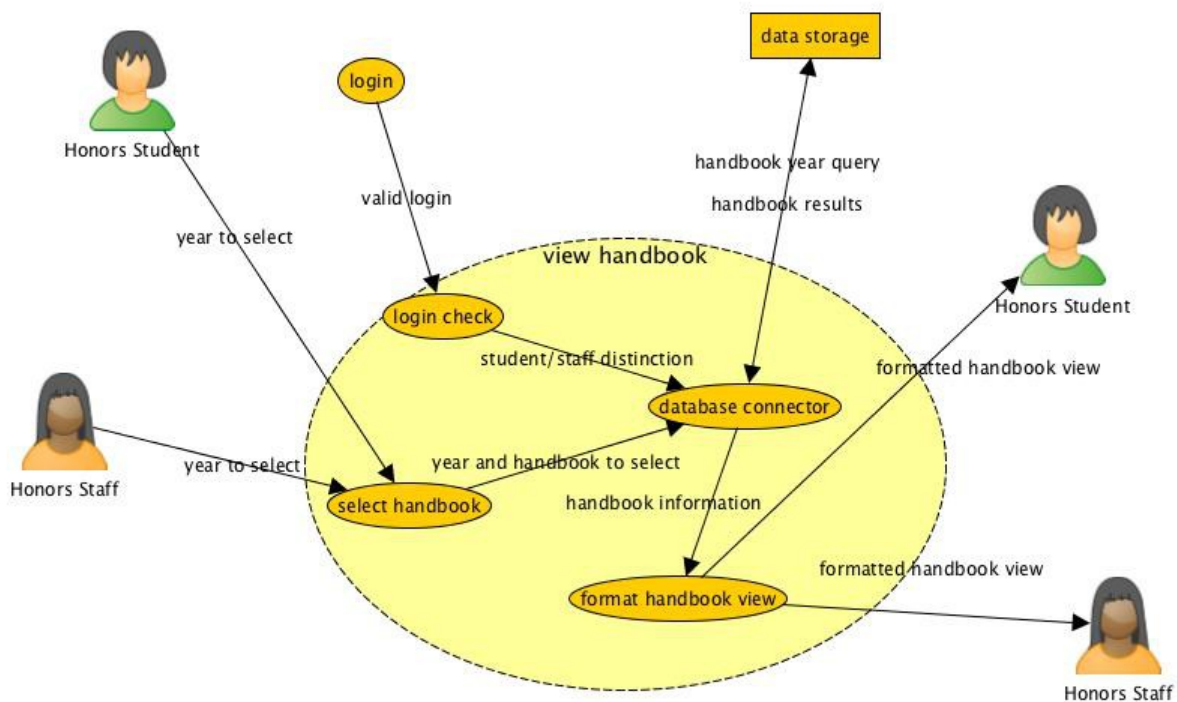
Data Flow Diagram – Level 2 – Data Storage



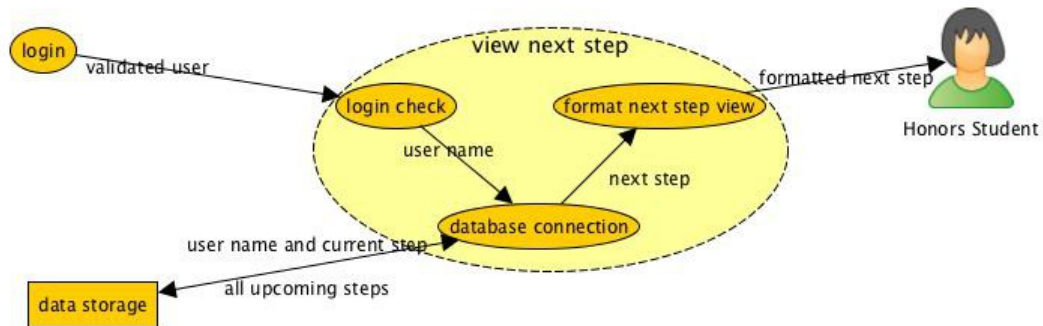
Data Flow Diagram – Level 2 – Login



Data Flow Diagram – Level 2 – View Handbook

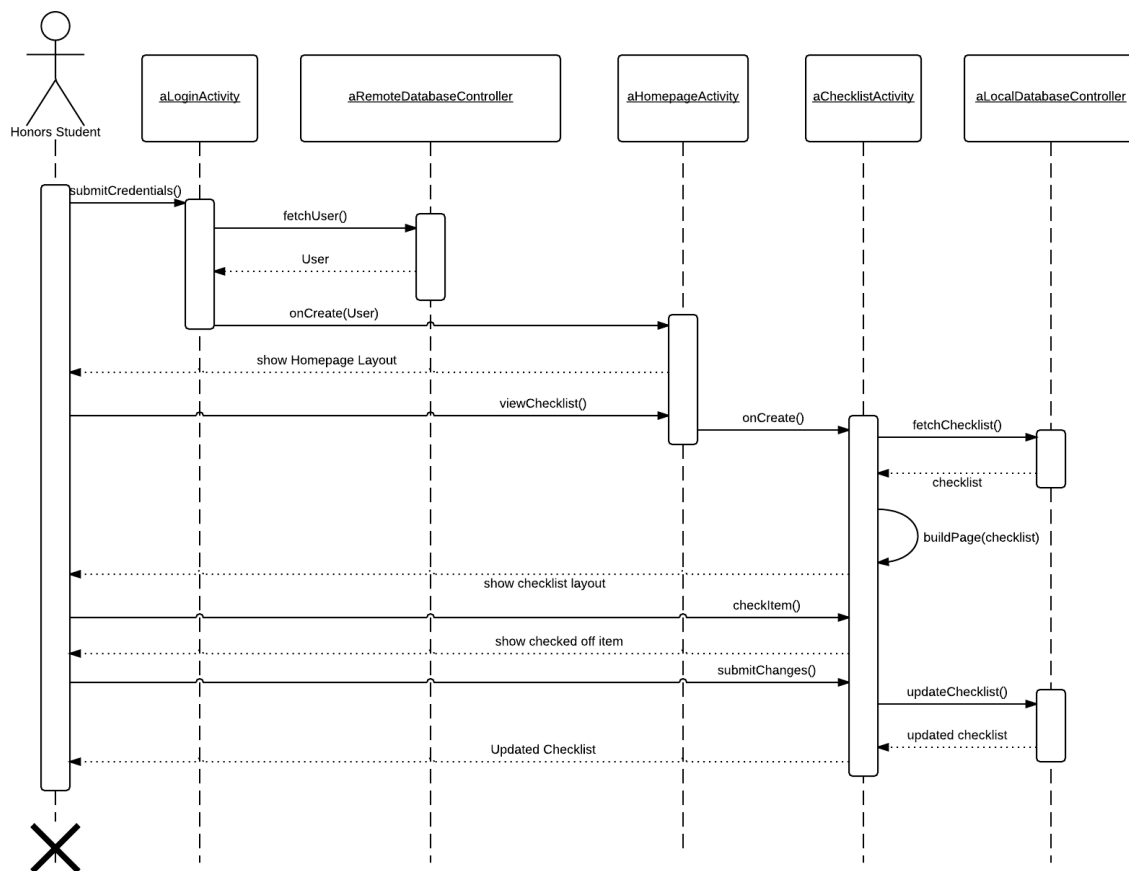


Data Flow Diagram – Level 2 – View Next Step

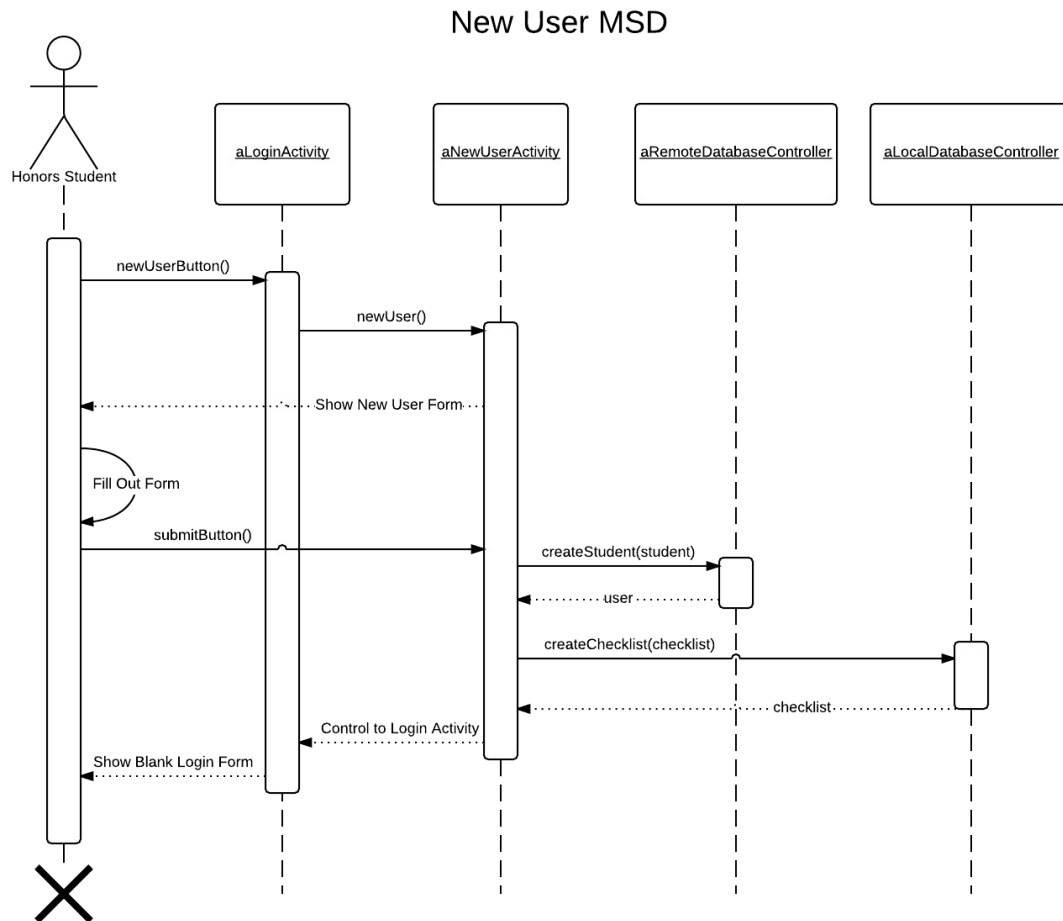


Behavioral Model – Sequence Diagrams

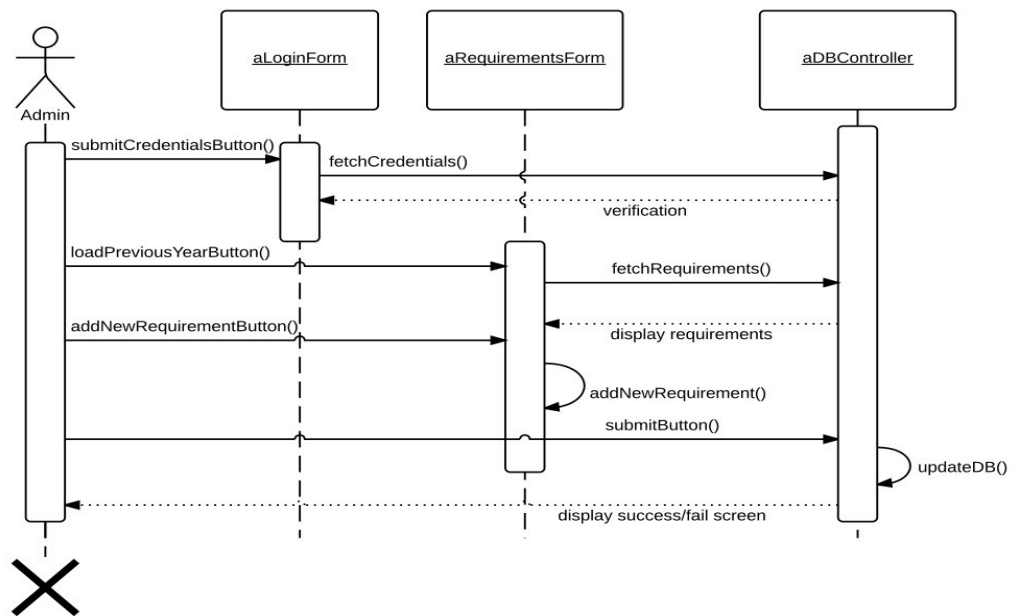
Sequence Diagram – Check Off Task



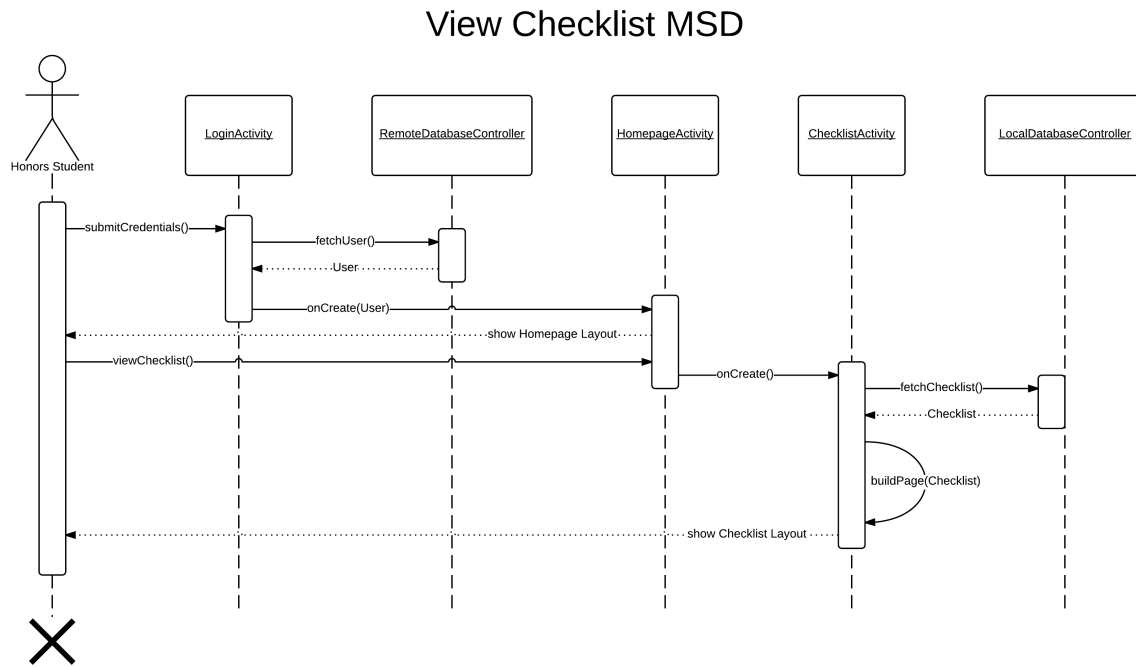
Sequence Diagram – New User



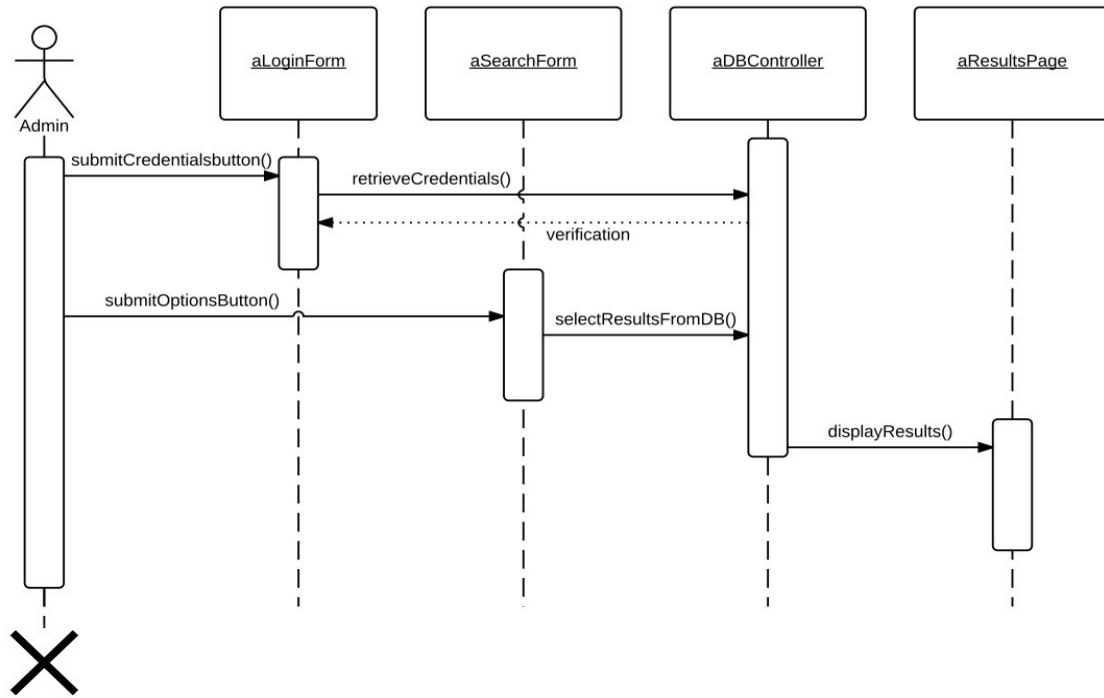
Sequence Diagram – Add Requirements



Sequence Diagram – View Checklist

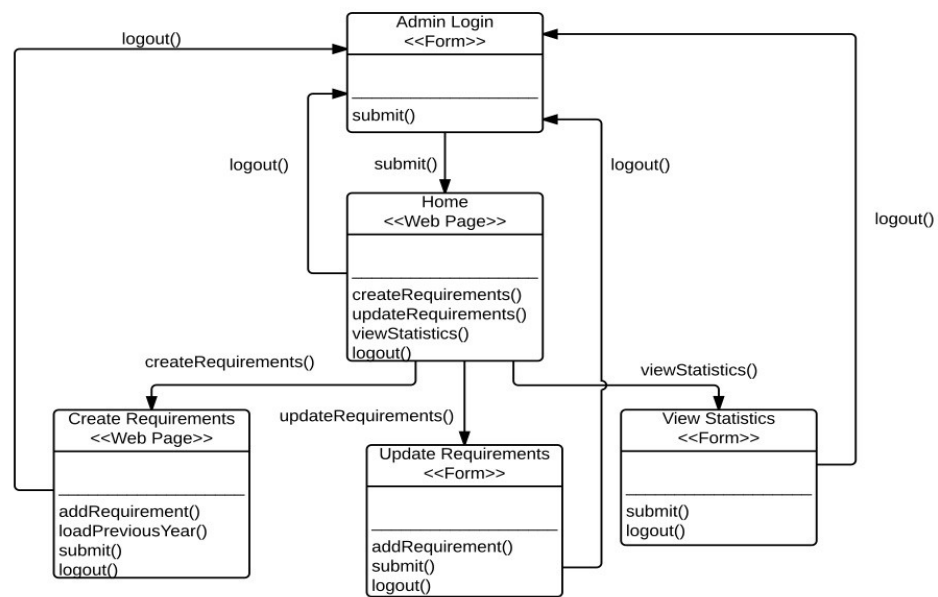


Sequence Diagram – View Statistics



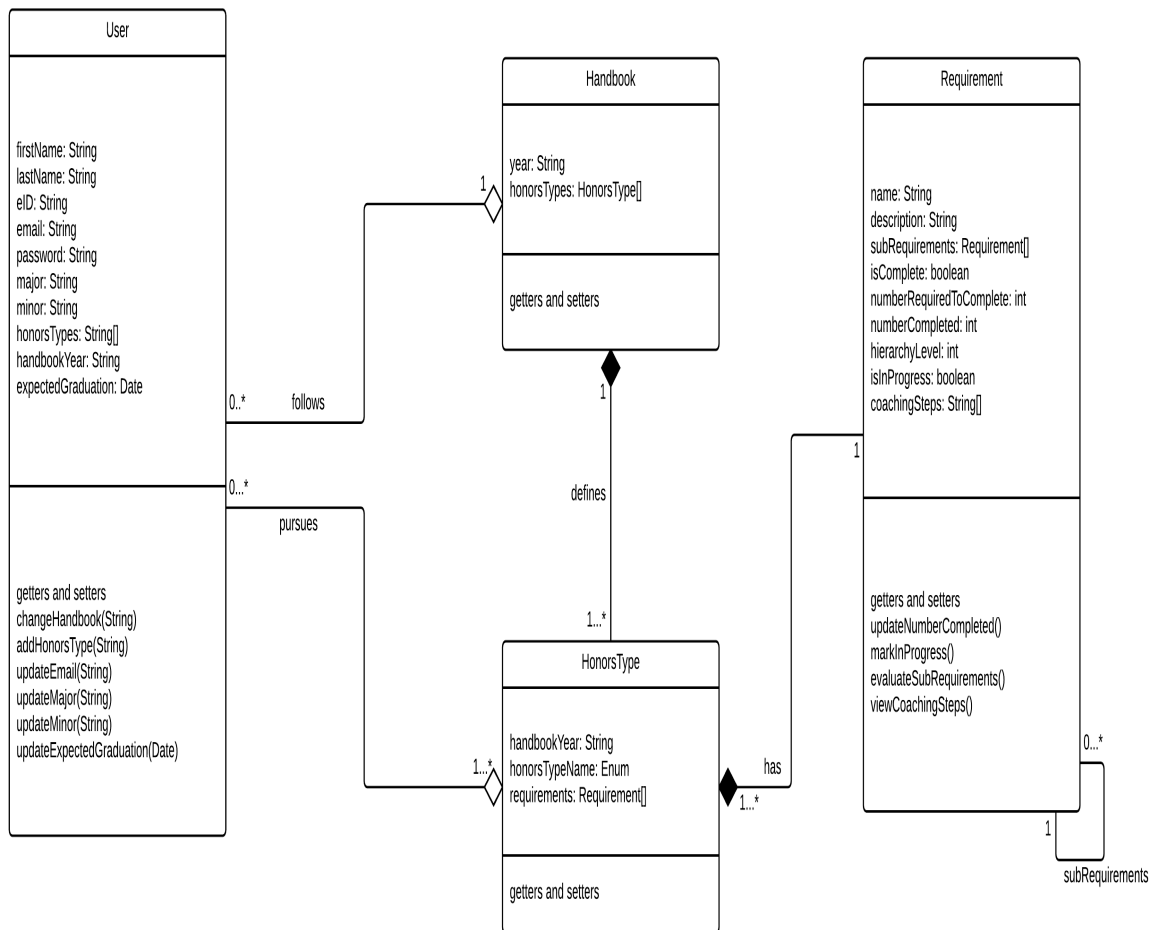
Class Diagrams

Class Diagram – Admin

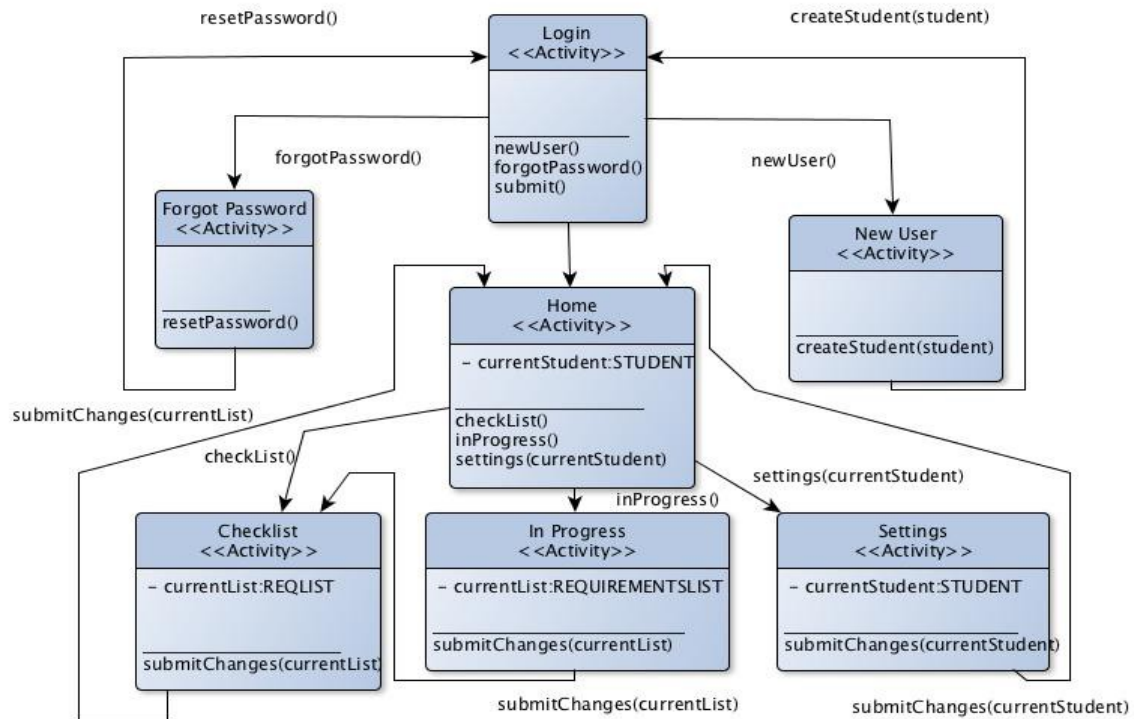


Class Diagram – Android Backend

Android Backend Data Class Diagram



Class Diagram – Admin



Secondary Prototype Screenshots

Individual Contributions

Stefano

For this phase, I created the View Checklist MSD, Android Backend Data Class Diagram, and helped contribute to the other Android related diagrams. I also led the team in Android development, spearheading the set up of the Android development environment and integration with GitHub. Specifically, I created the login page, new user page, and the checklist page, including all functionality and navigation behind these pages. I met with the client to demo our Android prototype to receive input and feedback on development work thus far.

Jordan

For the design phase of the project, I attended a meeting with our client displaying progress with the current prototype of the Android Application along with getting suggestions from the client for future progress. In the design document, I contributed to the Context Model, the New User sequence diagram and the Android Front End class diagram. For the prototype, I created a New User page which was ultimately thrown out and combined with the settings page. I have also contributed to high-level discussion about designing the front and back end of the Android Application.

Travis

On this portion of the project I contributed to the class diagram for the front end of the android application, I also created the sequence diagram for checking-off an item on the check list and the architecture diagram for the project. Along with creating the diagrams I contributed to the creation of the partially functioning prototype for the android application and attended a meeting with John to present the android prototype.

Nicole

For phase 3 I met with the group a few times just to touch base on progress. I created the Add Requirements and View Stats sequence diagrams as well as the class diagram for the admin side of the app. I also implemented a navigation bar on the website and did a very small amount of work on styling.

Eddie

Eddie designated Stefano as primary on Android development, made responsible for distributing the work among himself, Jordan, and Travis. Eddie did the ER diagrams, the DFD models, and compiled the design document from everyone's work. Eddie was also responsible for the database design and implementation and updated the Administrator website to connect to the database. Eddie worked with Nicole on updating the Administrator website style.