

### Vertically Integrate Projects 10.0

Student: Jesus Barrios, Florida International University

Instructor & Product Owner: Dr. Masoud Sadjadi, Florida International University

#### Problem

- There was a desire for there to be some infrastructure to host FIU senior projects, and be able to manage them within an environment (this would be VIP and Mobile Judge).
- The latest version (9.0) had been left in an undeployable state, with some unfinished/buggy features.
- Although robust, the admin features proved hard to learn and use.

#### Current System

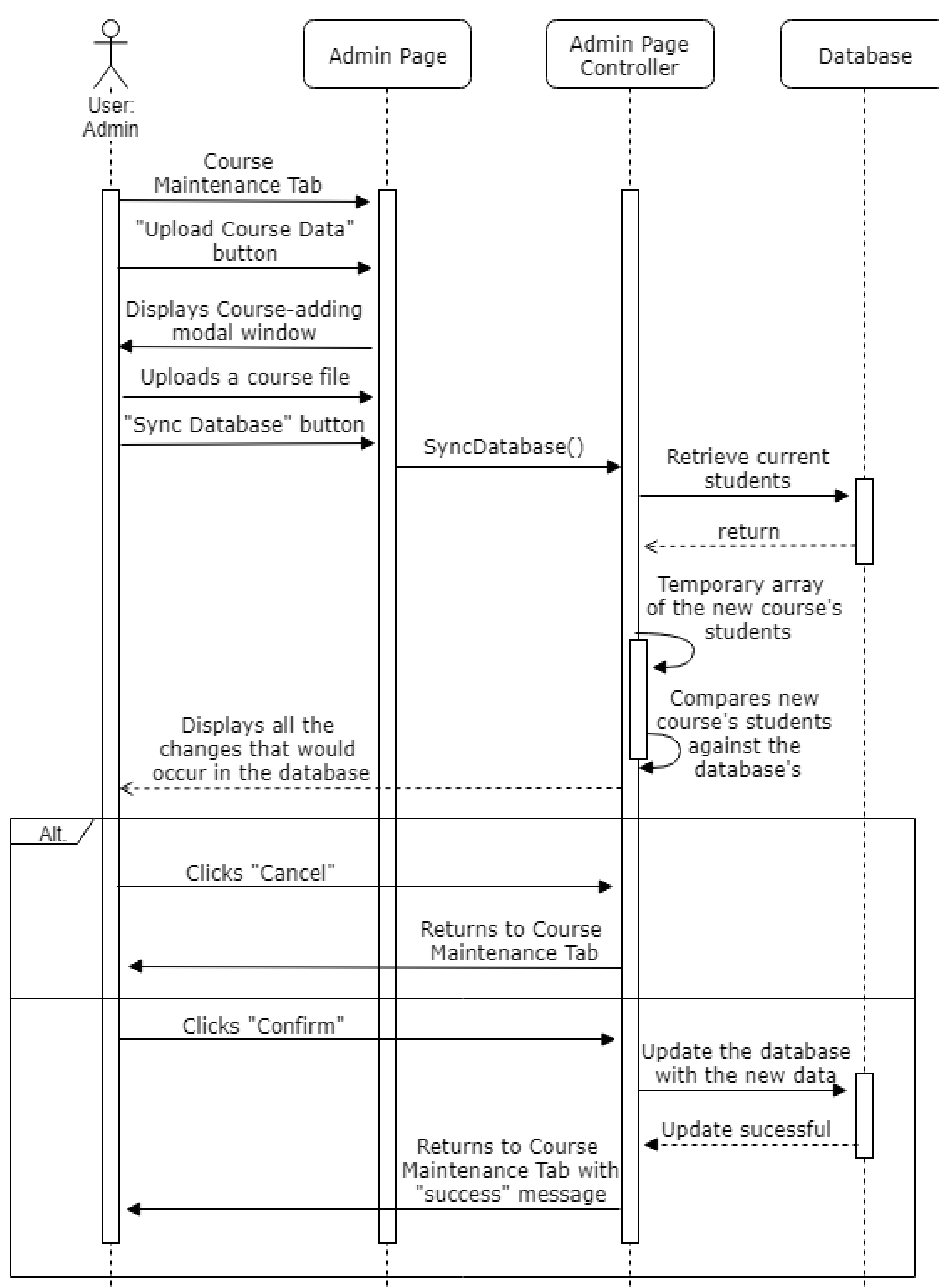


- The VIP Website, which uses the MEAN stack framework.
- Allows for students to select projects, and for admins to submit and manage them.

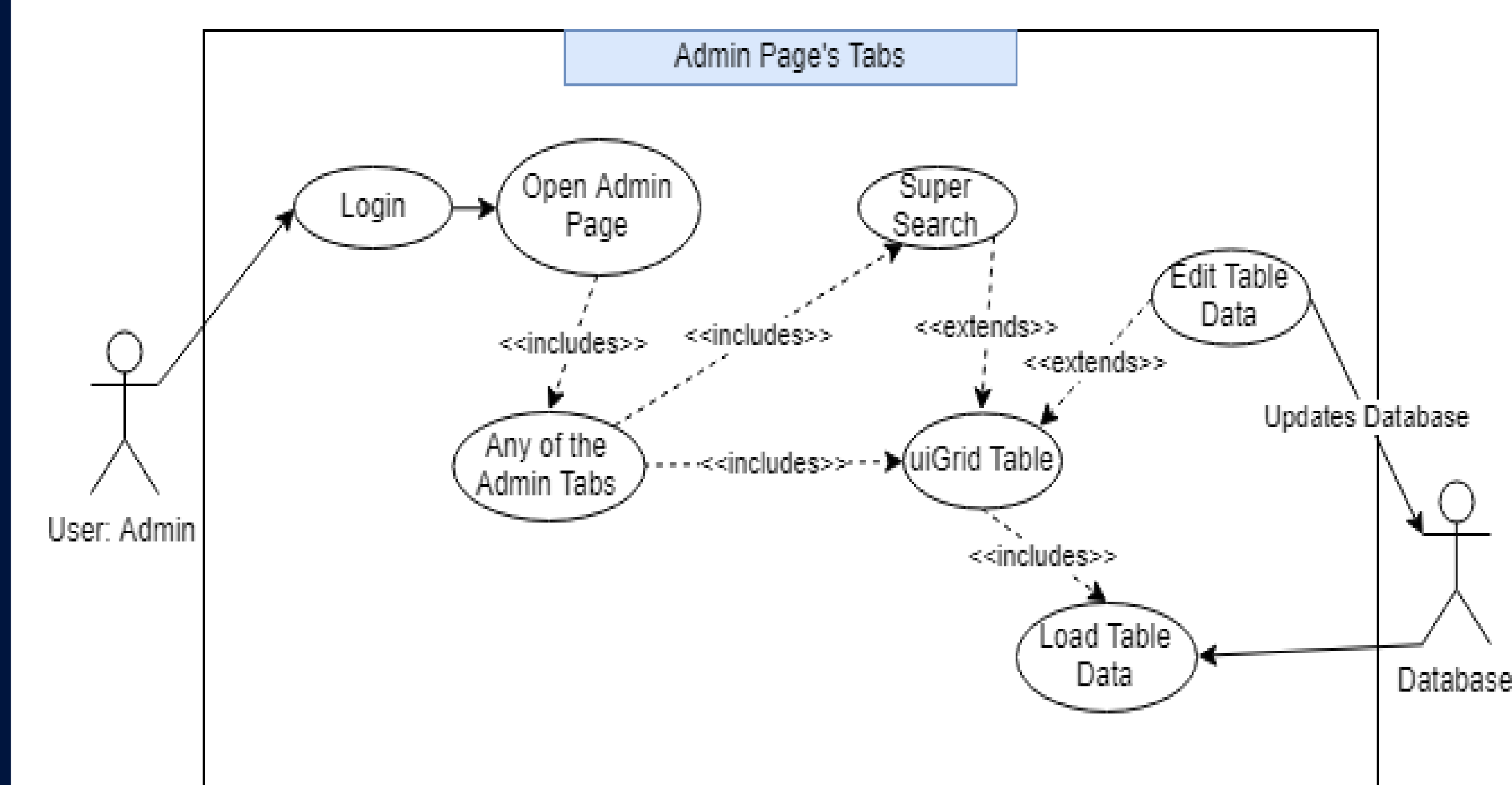
#### Requirements

- Implement super-search bars to allow broad searches through the multiple admin tabs.
- Improve the Course-Student adding procedure to allow the admin to know what changes are occurring in the database when making these additions.
- Improve the usability of the admin page data tables.
- Implement security for the VIP-Mobile Judge connection.

#### Implementation



Implementation of the Course-Student adding procedure.



Use case of super-search within admin tabs.

#### System Design



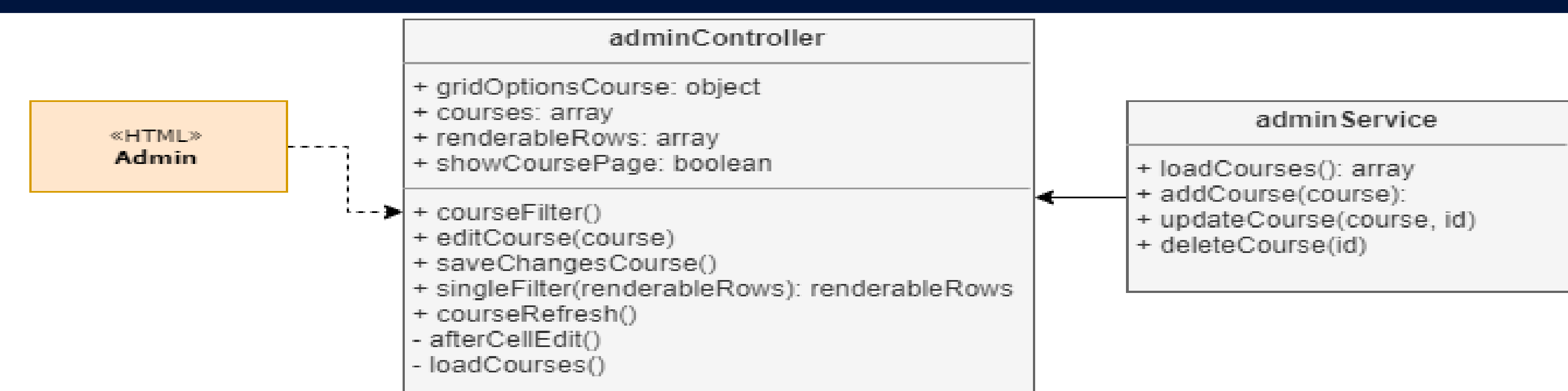
The VIP website was developed and is ran using the following:

- NoSQL Database
- Back-end Web Framework
- Front-end Framework
- Back-end Runtime Environment

#### Summary

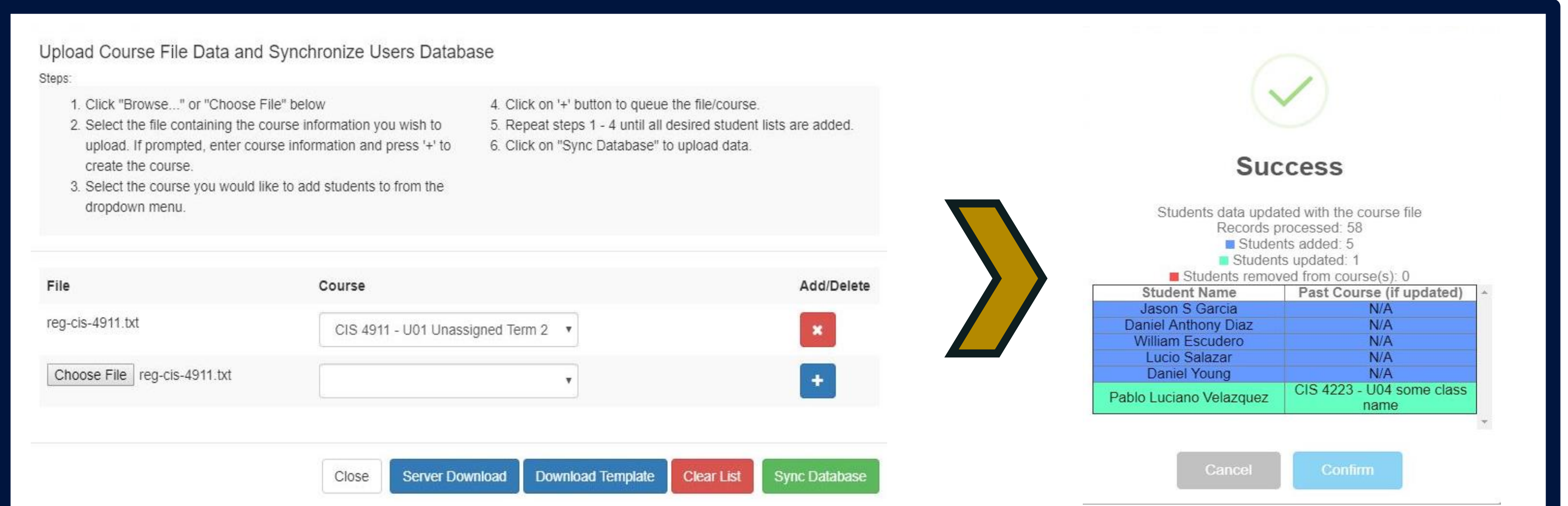
- Admins are now able to use super-search within any of the admin tabs to make their tasks easier and more dynamic, as the super-search works along with the individual columns filters that uiGrid comes with.
- Adding courses through course files is more effective now, as the admin is able to see the changes that would occur in the database, as well as being able to cancel the process, which wasn't possible before.
- General bugfixes throughout multiple features, mainly concerning the admin pages.

#### Object Design



- General view of the object design for any of the admin tabs (courses used as example)

#### Screenshots



#### Acknowledgement

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