

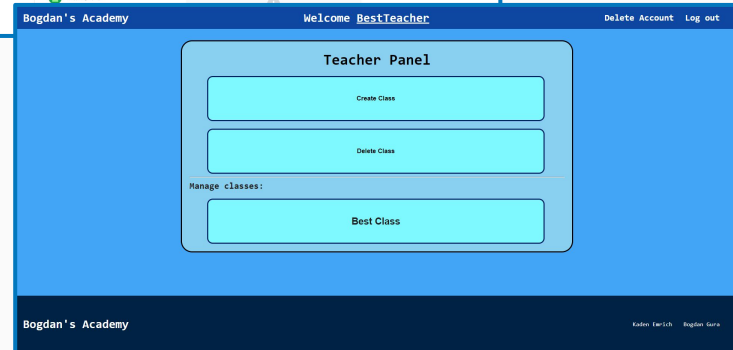
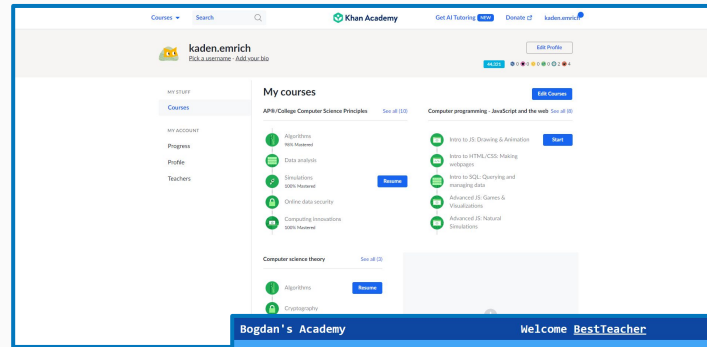
Bogdan's Academy

cvcc-bpa.com

By: Bogdan Gura and Kaden Emrich

Inspiration

One of the main inspirations for **UI** and **functionality** was [Khan Academy](#) because it is the educational platform that we were the most familiar with. We designed our **UI** to be much bigger because we don't have as much content that needs to be displayed.

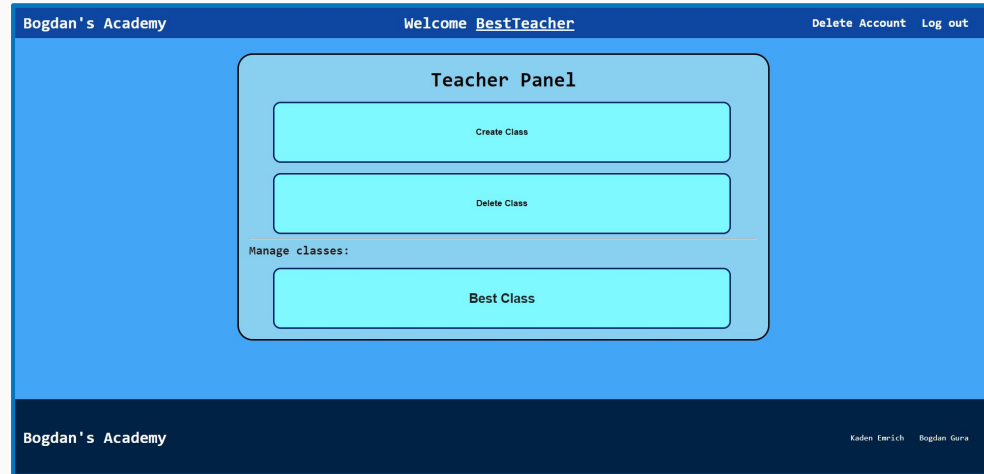


Development

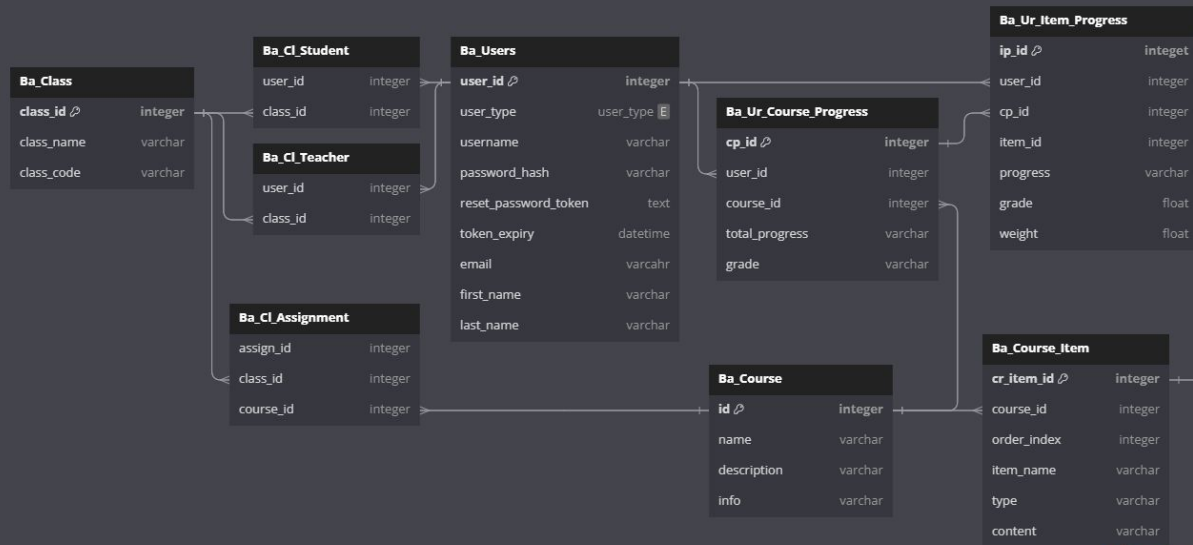
- **PHP** (Personal Homepage/Hypertext Preprocessor) was used for dynamic elements, user management, and server-side interaction.
- **mySQL** used for database
- **HTML** for web page elements
- **CSS** for styling
- **Javascript** for client-side interaction

User Interface / Experience

The site uses a **simple** blue color palette. There is a header bar at the top of the site that shows **relevant links** and **options**. The main elements of the user interface have rounded edges and sans font to give the site a more **casual** and calm feel. Most controls are **organized by class** in order to make assignments more clear.



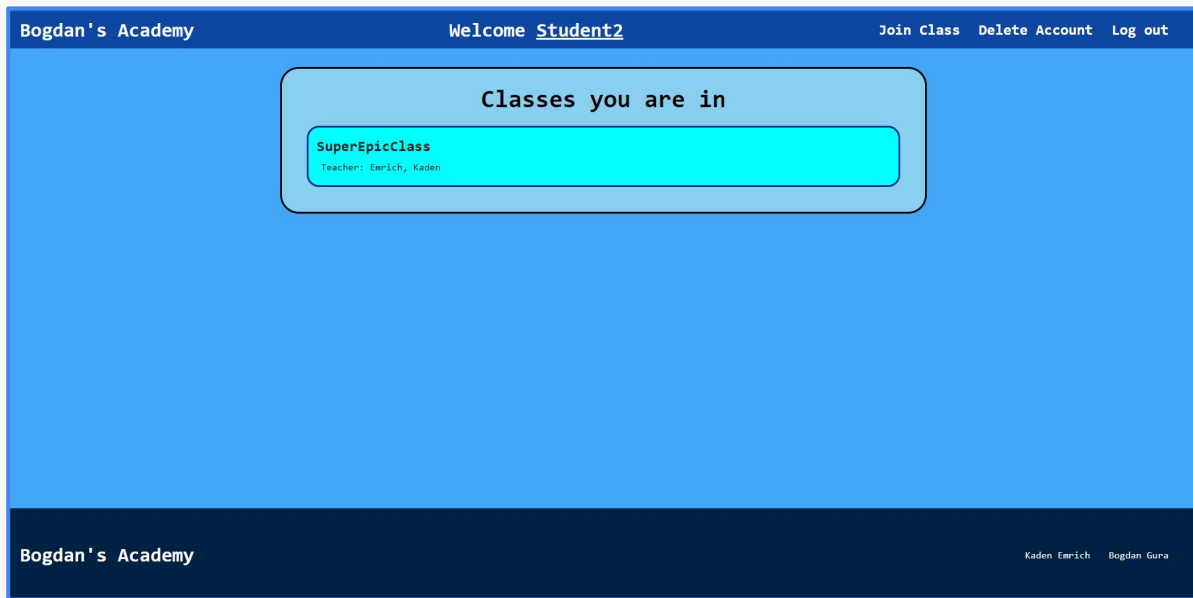
Database and Structure



The database was **designed** to keep queries simple. Any required data can be accessed using **relational** queries requiring at most **four** arguments.

Student Account Example

Users can create an accounts for students, login, join classes, and view educational material for that class. Like articles and quizzes.



Teacher Account Example

A user can make a teacher account that can create and delete classes, assign courses, monitor students progress, and invite students to classes by generating a class code that students can use to join.

The screenshot shows a web application interface for a teacher account. At the top, the header includes the academy name 'Bogdan's Academy', a welcome message 'Welcome Teach1', and links for 'Delete Account' and 'Log out'. Below the header, there are navigation buttons: 'Back', 'Invite Student to Class', 'Remove Student', and 'Assign Course'. The main content area is titled 'PSD 202' and displays course information for 'Code: programming' and 'Teacher: Johnson, Lily'. It includes a 'Students' table with columns for 'Last Name', 'First Name', and 'Email'. Below this, there is a 'Assignments' table with columns for 'Name' and 'Description'. The 'Assignments' table lists two assignments: 'Intro to HTML' and 'Intro to CSS'. At the bottom, there is a 'Progress and Grades' table with columns for 'Student', 'Course', 'Item', 'Progress', and 'Grade'. This table shows progress for various students across different courses and items.

| Student | Course | Item | Progress | Grade |
|------------------|---------------|----------------|-------------|-------|
| Johnson, Lily | Intro to CSS | CSS Article 1 | finished | 100 |
| | | CSS Quiz 1 | finished | 100 |
| | Intro to HTML | HTML Article 1 | finished | 100 |
| | | HTML Quiz 1 | finished | 100 |
| Doe, John | Intro to CSS | CSS Article 1 | not started | 0 |
| | | CSS Quiz 1 | not started | 0 |
| | Intro to HTML | HTML Article 1 | finished | 100 |
| | | HTML Quiz 1 | finished | 100 |
| Garcia, Robert | Intro to CSS | CSS Article 1 | not started | 0 |
| | | CSS Quiz 1 | not started | 0 |
| | Intro to HTML | HTML Article 1 | not started | 0 |
| | | HTML Quiz 1 | not started | 0 |
| Harris, Kimberly | Intro to CSS | CSS Article 1 | not started | 0 |
| | | CSS Quiz 1 | not started | 0 |
| | Intro to HTML | HTML Article 1 | finished | 100 |
| | | HTML Quiz 1 | finished | 100 |
| Petersen, Neil | Intro to CSS | CSS Article 1 | not started | 0 |
| | | CSS Quiz 1 | not started | 0 |
| | Intro to HTML | HTML Article 1 | finished | 100 |
| | | HTML Quiz 1 | not started | 0 |

Struggles & Issues in Development

During the development of Bogdan's Academy we ran into a many issues that made progress difficult. Here are some of the significant problems that we encountered.

- Naming database tables and columns
- File Transfer Protocol accidentally corrupting server
- Learning to use PHP for a project of this scale
- Learning SQL to write queries to the database
- Including Password Reset functionality for accounts was a great challenge since we had to learn what SMTP server is and incorporate it into our PHP mail logic
- Deadlines
- Managing school work and working on The Virtual Event
- Coming up with a good UI/UX design