

# TestCentral

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# Description

TestCentral is a test creation app that allows teachers to easily create tests for their students and acts as a repository teachers can use for their tests to store, update, and re-use every school year.



# Features

- User login and profile management
- Create, update, and delete tests
- Dynamic test views including: test key, student view, full test record view
- Ability to print test in selected view from app



# Planning - User Stories

- Motivation for project came from having a couple teachers in our group. This app makes test creation and formatting quicker and easier than using Word or other similar programs.
- Teachers aren't required to create the test and key separately; our app is able to generate this based on how they built the test and allows them to print off both



# Planning - Database

- Primary table is Test table which has a one to many relationship with Questions table
- Questions table has a one to many relationship with Options table. The options table is used for storing multiple choice answer options.
- User table to store users and all related login info



# Technology Stack

- C#, JavaScript, HTML/CSS
- ASP.NET Core 3.0
- Razor Pages
- EntityFrameworkCore, MySQL
- Identity, Bootstrap, Font Awesome



# Demo



# What I Learned

- Implementing icons and styling with Font Awesome
- Dynamic form generation and validation with JavaScript
- Using Fetch in combination with our C# controllers to receive data and render appropriate views with relevant data





# What's Next

- Create ability to login as a student and take an assigned test
- Continuing to improve and expand on the UI
- Making the Update Test page as dynamic as the create test page

