

Project: CYOA

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Description

This application facilitates the creation of Choose Your Own Adventure Stories and hosts them in a simple MVC site. When published, it will allow Users to create accounts, Stories associated with those accounts, and read Stories created by Other Users.



Features

- Full CRUD functionality for Stories and their Composite parts (Chapters and Options)
- History Tracker to inform Users of what Stories they've begun reading and which Chapter they left off at
- Story Map that provides a visual representation of a Story to its Author and any Collaborators working on it



Planning - User Stories

One of the first User Stories we addressed as part of the MVP was the CRUD functionality relating to Stories, their Chapters, and their Options. We later revisited this and decided Users would like to have a more interactive, visual representation of their Story when developing it, and added a Story Map. The Story Map functions as an interactive flowchart where an Author or Collaborator has access to all the CRUD functionality of the Story and its composite parts in one place.



Planning - Database

Our SQL Database houses the tables for Microsoft's Identity, as well as tables housing the Stories, (with a one-to-many relationship with) Chapters, (with a one-to-many relationship with) Options, and a History tracking table with a many-to-one relationship with the User table from Identity. This allows the application to display and connect this information in a cohesive way, which in-turn creates a easy-to-use reader experience.



Technology Stack

- C#, JavaScript
- .Net 5.0
- MVC
- SQL
- jQuery
- Microsoft Identity
- SendGrid



Demo



What I Learned

- Time spent working on this project gave more experience with MVC applications and the flow of data within them.
- Spent time seeding the Database for testing the application.
- Solved problems relating to fringe cases within the code base (deleting data required by other objects not updating/deleting said objects, profile pictures being required at account creation, no confirmation upon deleting data, etc.).



What's Next

- Search functionality, potentially including Tag searches
- UI improvements, potentially including an optional Dark Mode
- Further development and refactoring of JavaScript functionality

