

MICHIGAN STATE

UNIVERSITY

Project Plan Presentation

Snagit Template Creator

The Capstone Experience

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*From Students...
...to Professionals*

Functional Specifications

- TechSmith's product Snagit is a powerful screen capture editing software.
- Snagit has templates to bootstrap customer's creation process. Customers can browse through professionally created templates but creating their own is a challenge.
- Our project solves this problem with a web application that enables users to login and create, download and share new templates.
- Users will be able to export their created templates to Snagit and upload templates to the website for later sharing or retrieval.

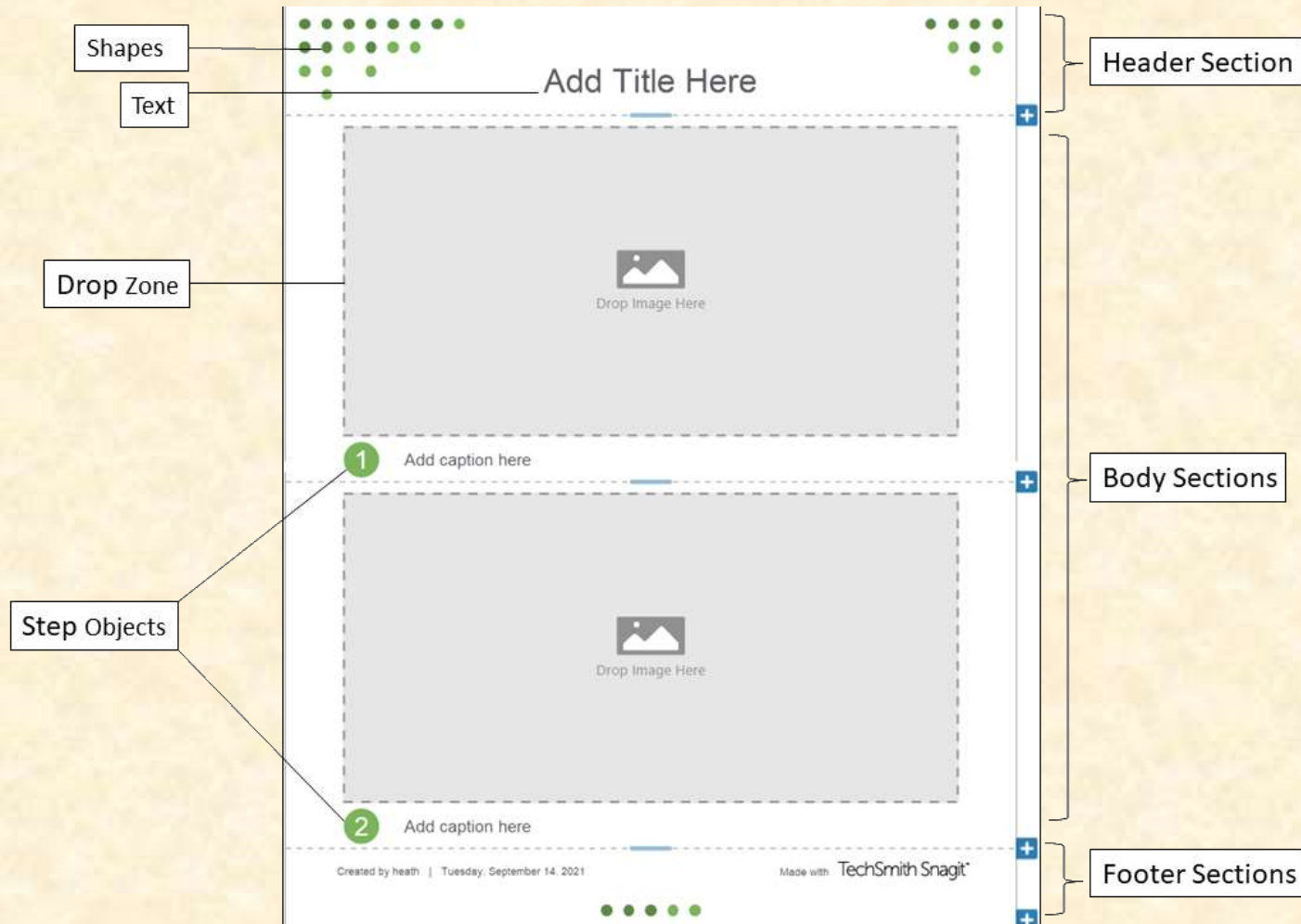


Design Specifications

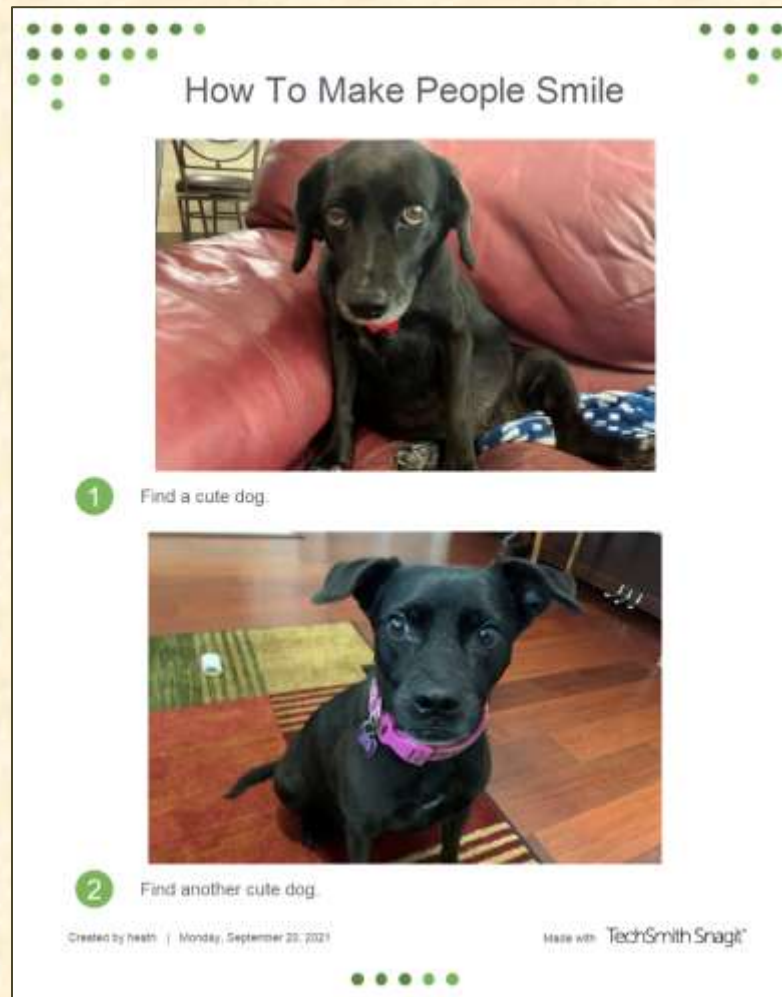
- Web application where users can login, create, share and download Snagit templates.
- Users will be able to define template layouts and customize those layouts with various graphics objects including drop zones, steps, text boxes, shapes, lines, etc.
- The ability to import, export and share Snagit templates through the web application.
- Created templates will be stored in a connected database based on unique user IDs for future viewing and sharing.
- Integrated Microsoft login system that enables a user to view all their previous templates, templates shared with them, or share their designs with others.



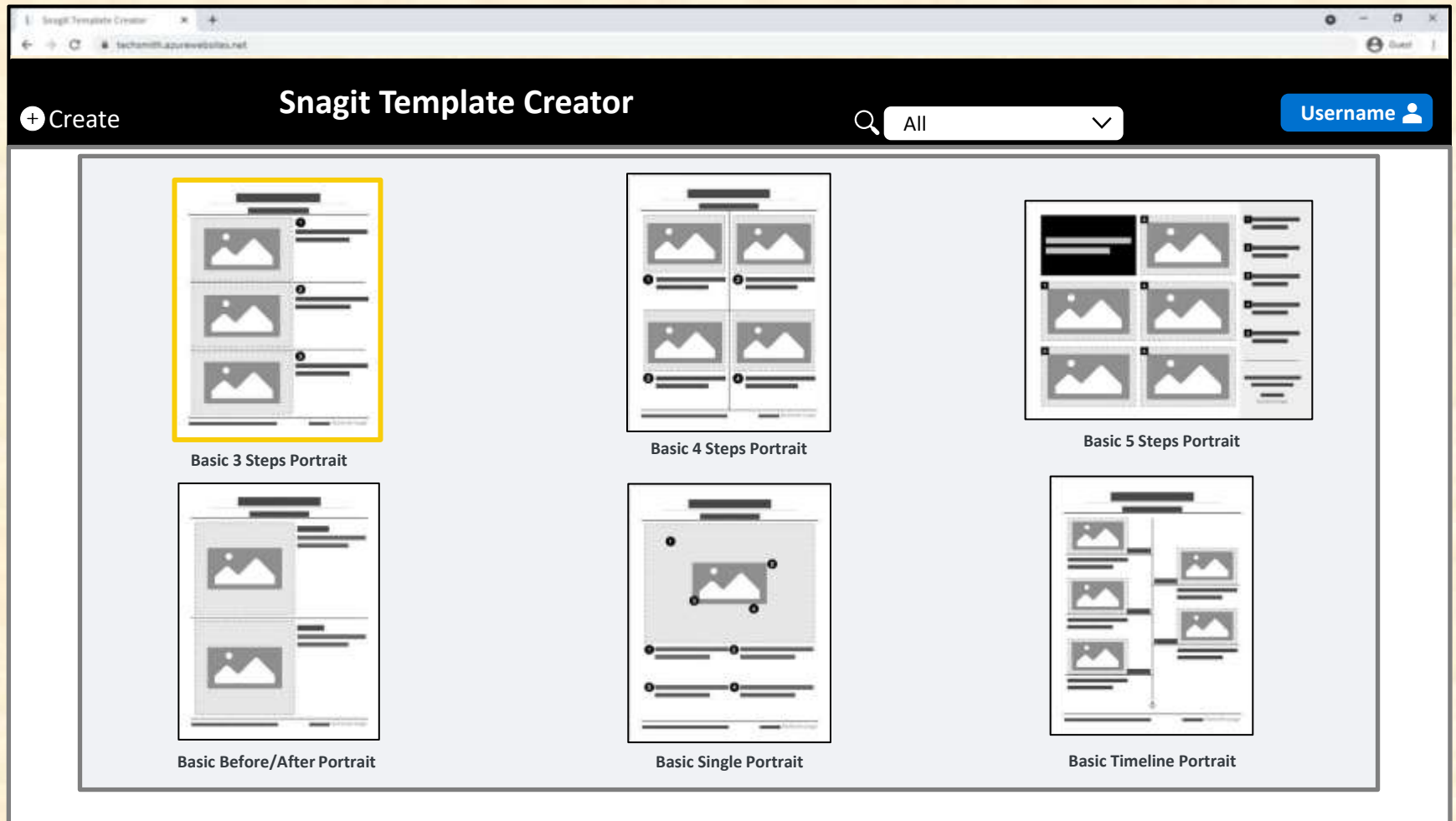
Screen Mockup: Example Template



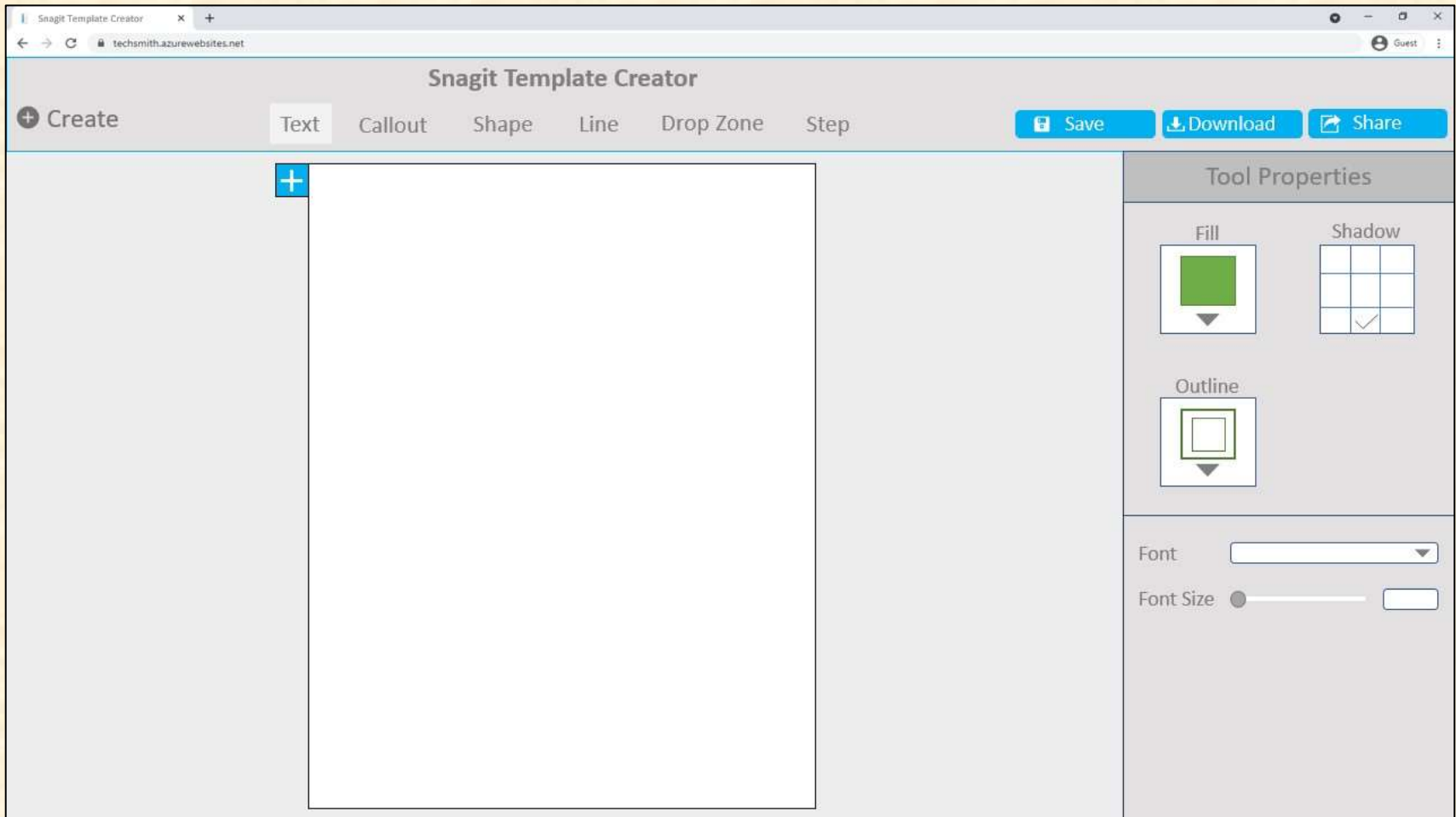
Screen Mockup: Filled Template



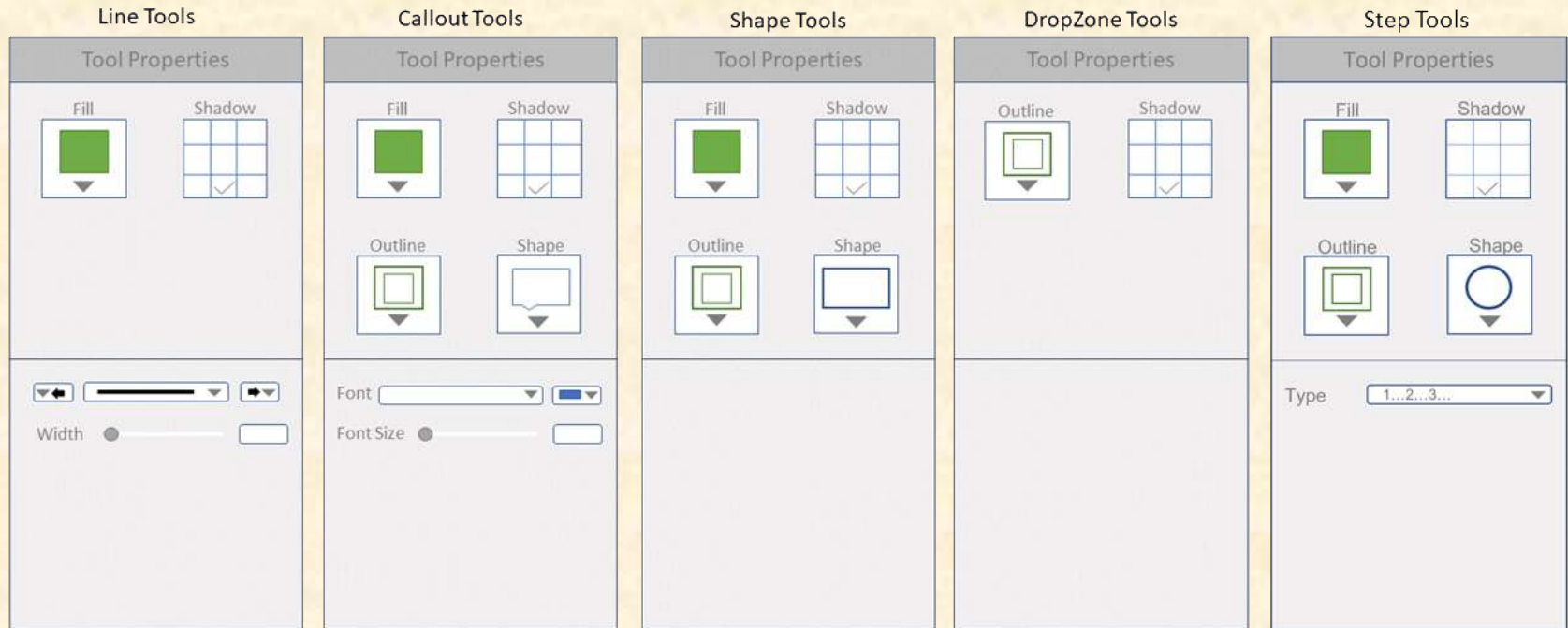
Screen Mockup: User Dashboard



Screen Mockup: Template Creator



Screen Mockup: Tool Panels



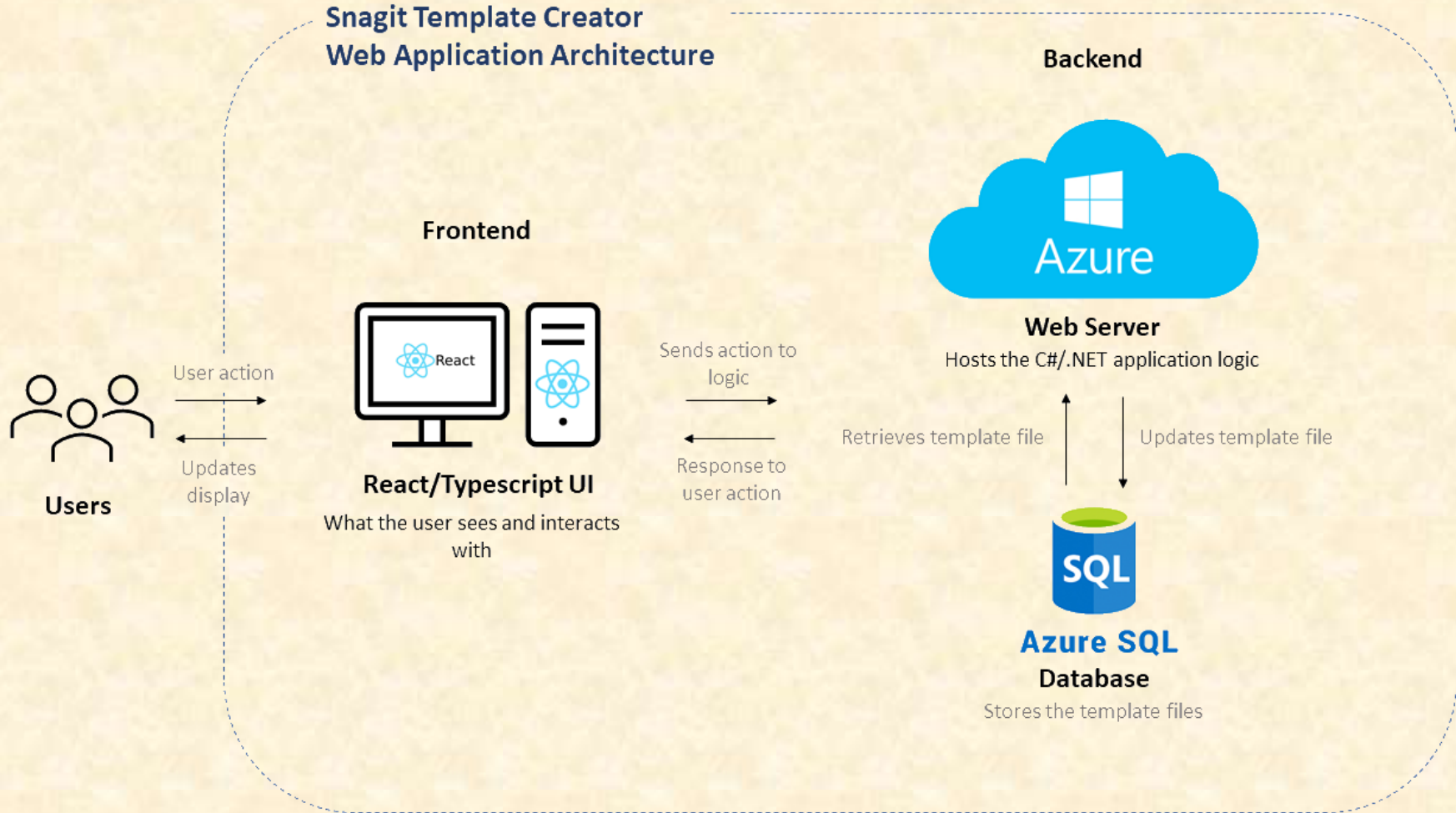
Technical Specifications

- React w/ TypeScript front end
- Azure hosted database for storing templates based on unique user IDs
- Azure hosted web server
- C#/.NET backend API
- JSON formatted template files
- React-Microsoft-login for sign in and sign out mechanism



System Architecture

Snagit Template Creator Web Application Architecture



System Components

- Hardware Platforms
 - Azure Web server
 - Azure MySQL Database
- Software Platforms / Technologies
 - Visual Studio- C#/.NET core
 - React w/ Typescript UI
 - JSON files
 - GitHub
 - Azure
 - Microsoft Login Framework



Risks

- Custom Template File Type
 - Template are represented as a .snagtz file, which is a proprietary formatted type of JSON. Because this file type is unique to TechSmith, we are unfamiliar with this file type and will need to learn how to transform .json files to .snagtz files for proper importing and exporting.
 - We have asked the customer for documentation about the basic framework of a .snagtz file to gain a better understanding of this file type.
- Little Documentation
 - The company does not possess much documentation on the basic requirements of template files.
 - We have had numerous conversations with the customers regarding the bare bones necessities of a template document. They have scoured their internal documentation pages to come up with more information for us. Additionally, we have made formulating a correct .snagtz file one of our first priorities.
- Feature Creep
 - Snagit and its templates have been around for 30+ years. With those years, many editing features have been added thus templates can be quite complex. It is not possible to implement all of these features within our time frame.
 - We have discussed and decided on the key components our customers would like to see in our application.
- User Login System
 - Microsoft login will be integrated into the Snagit Template Creator, enabling users to login to the application and save templates to their profile as well as share templates with other users. Microsoft login is another component we are unfamiliar with, thus presenting a slight development risk.
 - Our client has agreed to work closely with us on this issue to ensure proper and secure implementation. They have integrated Microsoft login capabilities into a previous Capstone project therefore we are confident that we will be able to successfully integrate this login feature.



Questions?

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