Advanced Web Technologies CW2 Report- Adventure Nation

Charlie Coyle

40325029@napier.ac.uk

Edinburgh Napier University - Advanced Wed Technologies (SET09103)

Keywords – Advanced Web Technologies, CCG Index

1 Introduction

What is Adventure Nation. Adventure Nation is a interactive site for text based adventure games were users can favorite games to their profile and play them from the click of a button on a Game card. The Home page allows a user to.

- Favorite an text based adventure game to have it saved to your profile

- Access the rest of the site via the integrated navigation via the button at the top left of the screen.

The text based adventure games(TBAGs) are loaded from a standardised formatted JSON file located in the static folder which means that any JSON file with the same formatting can be created and loaded to generator a completely custom TBAG. In future iterations of the site plan to allow for users to upload their own JSON files and post them to a feed.

Extra Functionality The Game cards have loaded images. The user can also Sign in to allow them to access the profile page(only accessible via navigation to users who are signed in) which will display the user's favorited game. In order to sign in the user would first have to create an account on the registration page.
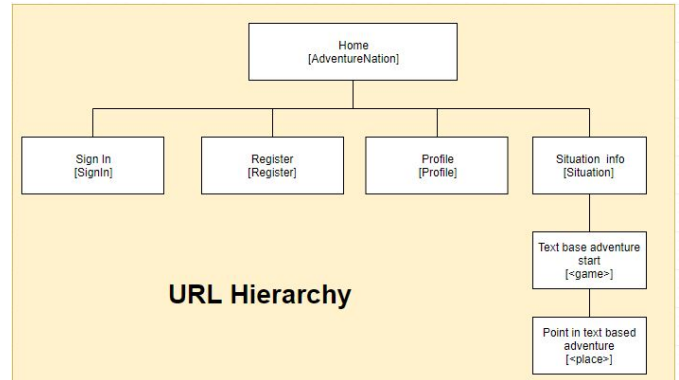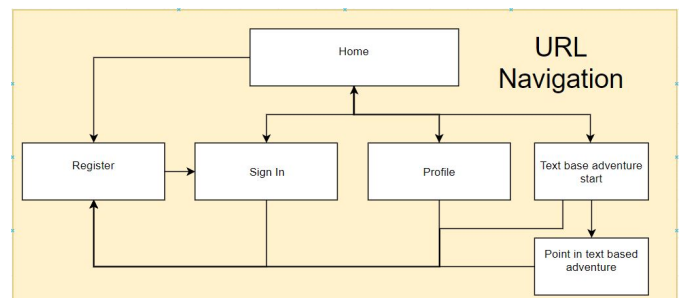
2 Design

2.1 URL Hierarchy

The URL Hierarchy branches from the home page into Sign in, Register profile and Situation; the hierarchy is designed like this as the subsequent pages only expand on what was displayed on the home page. Item also branches off of Situation as it shows specific game States from the TBAG currently being viewed.Each individual Story's in the story has buttons generate via the JSON files(OPTIONS list).

2.2 Navigation

The user can navigate to most of the sites pages using the navigation bar with the only exceptions being the: sign in page; registration page and Profile page. The Profile page can only be accessed by users signed in. The Profile Page can also access all other pages via the inbuilt navigation. The web-app is designed in this way to allow the user easy access to curated TBAGs that they can play. One of the

Figure 1: **URL Hierarchy** of web-app

pages that does not have a navigation bar is the Custom Error Page.

Figure 2: **Page Navigation** of web-app

2.3 JSON File Format

Listing 1: JSON Format

```
1 [{
2    "Title": "Death",
3    "Text": "You have died... a blue glow emanates form the ↩
       darkness. you see that blue gem the liquid within glowing ↩
       and spiraling.",
4    "Options": ["Awaken", "Exit"]
5 }, {
6    "Title": "Awaken",
7    "Text": "You awake in a crater the earth blackened and ↩
       cracked around you in your left hand is a ornate sword hilt ↩
       of gold and blade of blue steel in your other a blue Gem ↩
       with what looks like a liquid held within. You could leave ↩
       the crater What do you do?",
8    "Options": ["Leave", "Stay"]
9 }, {
10   "Title": "Leave",
11   "Text": "You emerge from the crater. The world around you ↩
       is a waste land in all but one direction. Once you emerge ↩
       fully form the Crater you notice a rather large fellow, by ↩
```

```
         large i mean 30ft tall and by fellow i mean Giant. What do ↩
             you do",
12      "Options": ["Run", "Attack"]
13   }, { ....
```
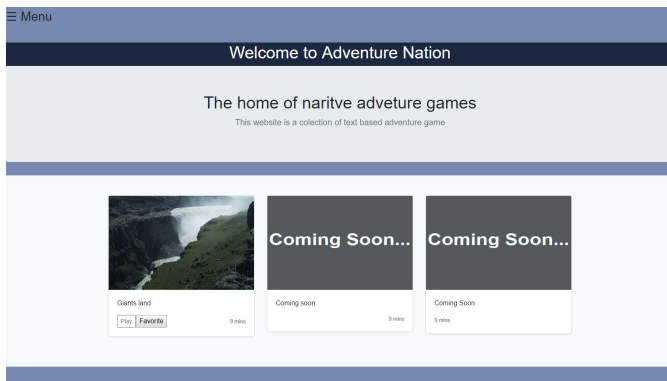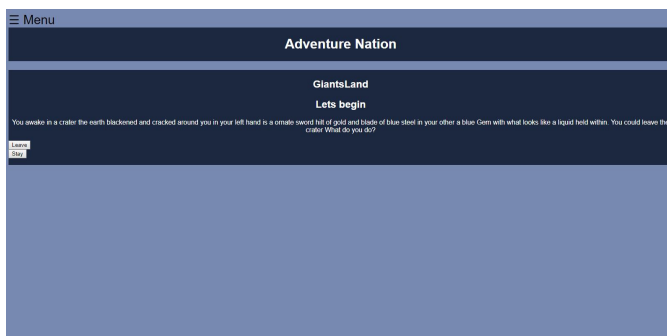

Figure 3: **Home Page** of web-app

Figure 4: **Game Page** of web-app

3 Enhancements

The profiles section is really bare and in future iterations
it is planed to allow users to add profile images and bio's)
also the introduction of tags to allow for users to see the
basic identifiers of a story and perhaps sorting the TBAGs
via them. The HTML pages themselves could be enhanced
to some degree.

4 Critical Evaluation

Features that work well

- Navigation bar - It functions as expected and looks
  professional.
- Game Loading - It functions as expected
- Sign in and registration both function as expected.
- The home page Look professional.
- All pages are color blind suitable.

Features that work poorly

- The UI in the for the TBAG interaction could be im-
  proved massively
- The navigation out of the registration/Sign in page
  could have been implemented more in a more user
  friendly manor.

5 Personal Evaluation

The web-app was first created to allow users to play a TBAG
and then subsequently built upon in order to add features
such as a sign in and profile to hold a favorite. The goals I
had set for the completion of the web-application were not
fully meet,some features I had planned to implement such
as allowing users to upload their own stories in the form
of JSON files were not full implemented showing that an
improvement in my time keeping abilities is still needed. The
few challenges I faced were down to a lack of experience
with sqlite3 and JSON, where later overcame by doing light
research and tutorials. To conclude I fell as though I have
preformed much better than I what i had first expected to
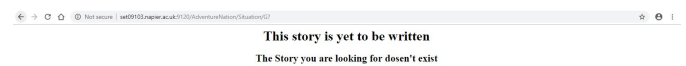and gained more experience with web-app development.
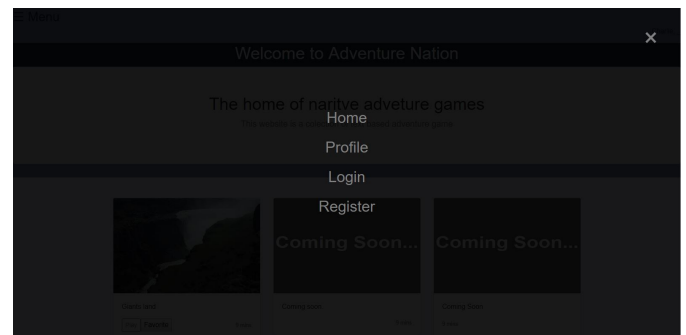

Figure 5: **Error Page** of web-app

Figure 6: **Menu For navigation with user signed in** of
web-app

Figure 7: **Registration Page** of web-app

Please sign in

Username User Name   Password Password   Sign in

© 2017-2018

Figure 8: **Sign In** of web-app