**Innovation Document**

This application was created using the programme versions:

**Ionic CLI :** 5.4.4

**Angular CLI** : 8.3.8

**Node js:** 13.3.0

**Sublime Text Editor** 3

**OS:** Mac OS Mojave

For this Mobile Application Module we were asked to design and write a Ionic Mobile News and Quote of the Day Reader.

The Quote of the day, displayed on the home page returns a daily quote and author. The news page reads news articles from 3 of the following country sources ( Ireland, Canada & USA). The Settings page allows the user to change the welcome name, country the source is taken from and font-size of both the title and the description. Changes are stored persistently and only can be saved if a name is entered.

All of the functionality was implemented bar the user *Choice* *font-size* of the title/ description as I had issues with its functions and implementation for this size change – so these were removed for smooth running’s of the application (the failed code excerpts can be seen below). I was successful in saving all of the settings to ionic storage and this can be shown by the “Current Saved Settings” <div> seen at the top of the news page.

To meet the requirements above this application consists of 3 pages Page’s and 2 providers.

* Home Page
* Settings Page
* News Page
* Quote Provider
* News Provider

***Instructions for running the Application***

1. Change directory to locate the G00376422 folder in the Terminal.
2. Change into that directory (cd G00376422/).
3. Ionic serve the application once in the folder (ionic serve)
4. View the Application.

***Additional Innovation***

* Changed the theme to a more visually pleasing Dark-theme in variables.scss that’s very popular.
* Changed the colour scheme of the main primary and secondary colours used in this mobile application to suit the style of the document.
* Added an extra attribute image to the radio-button associated with choosing the country so as to be more visually pleasing to the customer.
* Added an additional responsive image to the homepage -of a news theme.

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***Extra Code Throwing Error : Tries to Implement Sizing Function***

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| --- | --- |
| **Idea 1: News.ts function**  fontSizeTitle(){  if(this.title != null){  console.log("In fontSizeTitle function")  document.getElementById("titleSize").style.fontSize = "xx-large";  }else{  alert("Error Accesing Storage! ");  }}  if(thisdescription != null){  console.log("In fontSizeTitle function")  document.getElementById(“descriptionSize").style.fontSize = "xx-large";  }else{  alert("Error Accesing Storage! ");  }  }  **Idea 3: Similar to what was carried out with country setting in news.ts - ionViewWillEnter**  ionViewWillEnter(){  this.storage.get("title")  .then((data) =>{  this.title = data.toString();  console.log(this.title);  if (this.title == 1){  document.getElementById("titleSize").style.fontSize = "x-small";  }else if(this.title == 2){  document.getElementById("titleSize").style.fontSize = "small";  }else if(this.title == 3){  document.getElementById("titleSize").style.fontSize = "medium";  }else if(this.title == 4){  document.getElementById("titleSize").style.fontSize = "large";  }else if(this.title == 5){  document.getElementById("titleSize").style.fontSize = "x-large";  }else{  alert("Error Accesing Storage! ");  }});  this.storage.get("description")  .then((data) =>{  this.description = data;  console.log(this.description);  changeDescriptionSize(){  if (this.description == "1"){  document.getElementById("titleSize").style.fontSize = "x-small";  }else if(this.description == "2"){  document.getElementById("titleSize").style.fontSize = "small";  }else if(this.description == "3"){  document.getElementById("titleSize").style.fontSize = "medium";  }else if(this.description == "4"){  document.getElementById("titleSize").style.fontSize = "large";  }else if(this.description == "5"){  document.getElementById("titleSize").style.fontSize = "x-large";  }else{alert("Error Accesing Storage! ");  }}});} | **Idea 2: Use of a Service to determine the change to font size for the setting saved in storage —**  Import Storage and Change Size  title: number;  description: number;  changeSize(){  if(this.title != null){  console.log("In Size function")  if (this.title == 1){  document.getElementById("titleSize").style.fontSize = "x-small";    }else if(this.title == 2){  document.getElementById("titleSize").style.fontSize = "small";    }else if(this.title == 3){  document.getElementById("titleSize").style.fontSize = "medium";    }else if(this.title == 4){  document.getElementById("titleSize").style.fontSize = "large";  }else if(this.title == 5){  document.getElementById("titleSize").style.fontSize = "x-large";    }else{  alert("Error Accesing Storage! ");  }  });  this.storage.get("description")  .then((data) =>{  this.description = data;  console.log(this.description);  changeDescriptionSize(){  if (this.description == "1"){  document.getElementById("titleSize").style.fontSize = "x-small";    }else if(this.description == "2"){  document.getElementById("titleSize").style.fontSize = "small";    }else if(this.description == "3"){  document.getElementById("titleSize").style.fontSize = "medium";    }else if(this.description == "4"){  document.getElementById("titleSize").style.fontSize = "large";  }else if(this.description == "5"){  document.getElementById("titleSize").style.fontSize = "x-large";  }else{  alert("Error Accesing Storage! ");  } }}); |