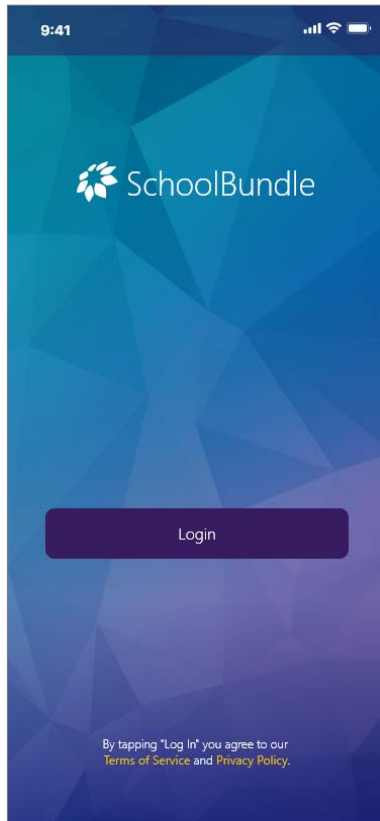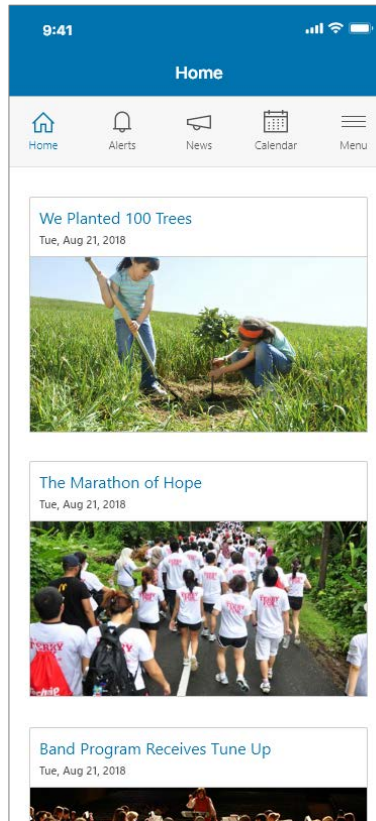# App Developer Test

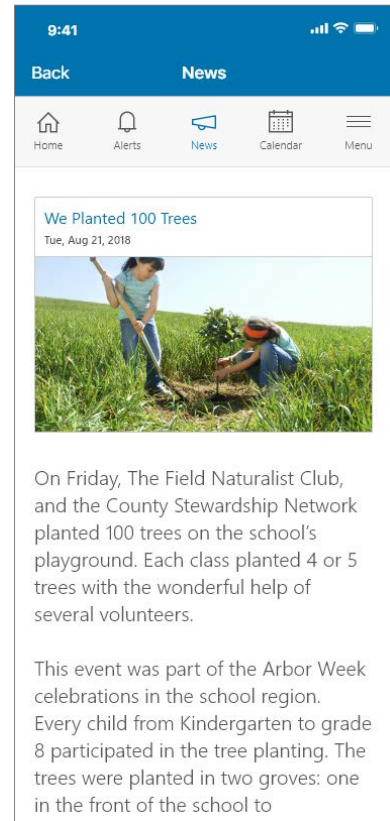**App Splash Screen**   **Home**   **News Post**

Storyboard URL

This URL provides the design comps at full size for the 3 app screen designs.

https://xd.adobe.com/view/368d188d-1f08-4580-5f28-599aaf51aeb8-40bc/

Password: btg+2zga

App Engineering Specifications

This URL outlines the layout details for the screens; assets, colours, character styles and screen details on the 3 app screen designs.

https://xd.adobe.com/spec/e9a20ef9-6def-489e-6c5d-2391690526ae-9f93/

Password: btg+2zga

Test Rules

Prerequisites

1. Visual Studio 2015/17 installed.

2. Xamarin Android and/or Xamarin Forms SDK installed.

3. User token to access the Concept API. You should have also received this from Concept Interactive.

Instructions

1. Create a new Mobile App using either Xamarin.Forms or Xamarin.Android called "SchoolBundle Mobile" in Visual Studio.

2. Create code to retrieve articles from the Concept API using the information provided below.

    Endpoint: https://ci-webapi-m-poc.azurewebsites.net/api/pocarticle
    Method: GET

    Custom headers

Key	Value
x-appid	14,35,240,1,219,8,111,209,14,57,158,132,121,93,243,222,127,19,158,182,36,210,75,247,114,232,251,247,216,226,194,153,204,41,26,114,91,218,230,132,252,25,66,102,194,73,73,19,190,50,205,174,157,72,244,177,101,122,162,217,208,12,41,86,163,50,84,93,224,86,56,76,159,224,234,57,220,94,52,193,122,161,253,87,25,101,171,23,253,57,23,154,144,218,170,28,13,117,86,169,139,117,209,159,36,19,75,154,88,147,59,105,87,112,163,112,79,144,65,146,21,136,246,4,133,162,195,47
x-custid	59e5cb3d-d1fb-40ee-bcea-1bb862f0fc83
x-usertoken	Provided in email
x-mvc-host	SchoolBundleMobile

3. Use the following model information required for retrieving the data from the API.

```
public class POCArticle
{
    public string Title { get; set; }
    public string Description { get; set; }
    public string ImageUrl { get; set; }
    public int DisplayOrder { get; set; }

    public DateTime DateCreated { get; set; }
    public IList<NewsfeedCategory> Newsfeedcategories { get; set; }
    public IEnumerable<Link> Links { get; set; }
    public IEnumerable<Attachment> Attachments { get; set; }
    public string ItemGuid { get; set; }
    public int ContentTypeId { get; set; }
}

public class NewsfeedCategory
{
    public string CategoryName { get; set; }
    public long NewsfeedCategoryId { get; set; }
}

public class Link
{
    public long LinkId { get; set; }
    public string LinkUrl { get; set; }
    public string LinkTitle { get; set; }
    public int DisplayOrder { get; set; }
}

public class Attachment
{
    public long AttachmentId { get; set; }
    public string FileDisplayName { get; set; }
    public string UniqueFileName { get; set; }
    public int DisplayOrder { get; set; }
}
```

4. Recreate the 3 mobile app screens (**App Splash Screen, Home, News Post**) along with their transitions.

    a. **App Splash Screen** – This is the welcome screen for the app. Selecting the 'Login' button will take the user to the home screen.
    b. **Home** – This screen lists out all the current news postings. Additional news postings should have a lazy-load affect as the user scrolls down the screen. Use the articles retrieved from the API and populate the news stories along with their images. Make sure the articles are ordered based on the DisplayOrder field.
    c. **News Post** – This is the full posting detail of the news story. The required information is available from the articles retrieved from the API. **Remember to scroll down to see all the post elements!**

5. We're looking for the markup to be visually as close as possible to the storyboard specifications provided in the URL's.

6. Attention to the design detail, layout and spacing is key. We are looking for optimal performance and pixel-perfect designs.

7. Fonts have been included in the .zip file of this test package. App assets can be accessed and downloaded inside the design specification URL (see above).

8. Additional interactivity applied to the layout is welcome – we're looking for some creativity.

Submit Your Work

1. Perform a final compile of your web solution(s). Debug mode is fine.

2. Package the APK file AND the MVC project directory, including the SLN file, in a single zip file.

3. Send the zip file to rpradeep@conceptinc.ca. ALTERNATIVELY, you may use an FTP site or Microsoft OneDrive or Google Drive or Dropbox and send the download link to rpradeep@conceptinc.ca.