Infosys iOS Test

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Git URL: https://github.com/pratimagauns/InfosysTask_iOS.git
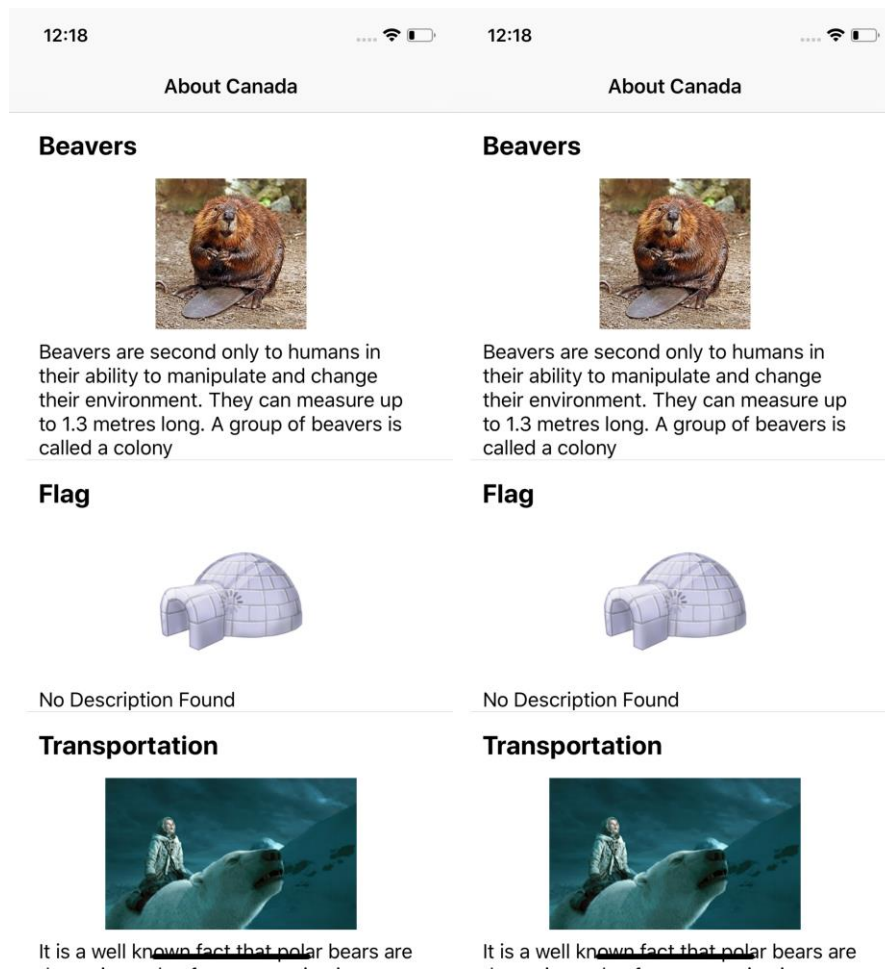
Problem description and the features implemented:

- Create a universal iOS app using Swift which: • Ingests a json feed https://dl.dropboxusercontent.com/s/2iodh4vg0eortkl/facts.json • You can use a third party Json parser to parse this if desired. • Displays the content (including image, title and description) in a table • The title in the navbar should be updated from the json • Each row should be the right height to display its own content and no taller. No content should be clipped. This means some rows will be larger than others. • Don't download all images at once, only as needed • Refresh function, either a refresh button or use pull down to refresh. • Should not block UI when loading the data from the json feed. • Support all iOS versions from the latest back at least 2 versions

Technical Specifications:

- Platform: iOS
- Tools: Xcode 9.4.1
- Language: Swift 4
- Supported Version: iOS 10.0 and above
- Tested on: iPad Pro, iPhone X, iPhone 8 Simulators (Portrait and Landscape Orientations)

Screenshot:

Brief Functionality:

- On Load the app downloads the JSON data using NSUrlSession and parse it to the DataModel Object.
- The navigation title displays "title" from the JSON file
- The screen displays the table view with each cell showing the "title", image after downloading it from the "imageHref" and the "description".
- The images are downloaded when required and saved in the cache. Used Alamofire and AlamofireImage to achieve this functionality.
- Carthage is used for dependency inclusion.
- The screens are adaptive to render on iPhone, iPhone X and iPad in both portrait and landscape mode.
- MVVM design pattern is used to make code structured and unit testable.
- Unit test cases are added for major functionality and verified that they are working.