

# SJSU NAVIGATOR

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There are four features that are provided to the user.

1. **Events:** This feature shows the events being held on-campus for a week. User can see the details of the events including a short description, its venue, start time and end time.
2. **Campus Map:** When used taps on this feature it shows the bird-eye view of the whole campus. We have marked the map with some of the important building on-campus. When user taps on a particular building an alert box pops up showing required details of the building and departments in the building. (Please refer note 2)
3. **News:** There are 2 important sources of news on the campus i.e. SJSU News and Spartan News. Using this feature user has access to both and can select any one to see the list of brief headlines. They can browse further if they want to access more information.
4. **Directory:** There are about 400 departments across the campus. We might not be aware of where they are located and how we should contact them. This feature provides the list of the departments and their information. Anyone can search the required information and see their details.

A list which describes how the app meets the grading criteria:

1. The application has a polished interface as per the requirement. The home screen shows all the features with tower hall as its background. The buttons work appropriately and it does not crash on any user input.
2. The app makes constructive use of devices touch interface. We can just swipe from left to right in horizontal direction to go back to the previous screen/option.
3. The App does parsing of live RSS feeds from different sources over the Internet. It parses SJSU website to populate the information regarding various departments. Also, we have used Google Map APIs to show the campus map along with additional layer of information for user to access information directly from map to make use of devices networking capability.
4. We have implemented shared preferences to store the state of the app. The app directs back to the same module on re-open, on which the app was closed. The app is user friendly and does not hamper the OS in opening or closing in any way. The feed from the RSS loads smoothly depending on the internet connectivity.
5. The Junit testing was performed to test the App. The test cases of home screen, events and directory are included for reference. The Java project for the same can be found on dvd in folder named "Test Cases"

**References:**

- SAX Parser

<http://www.ibm.com/developerworks/opensource/library/x-android/>

**Note:**

1. The database is pre-created and we do not populate the database every time we start the application to save time and unnecessary computations. However, we are providing the java source code in Database.txt for any reference required.
2. As Map module might not run because we have used our Google Map API key, we are also attaching self signed apk file.