



REPRESENT!

Kushal Singh

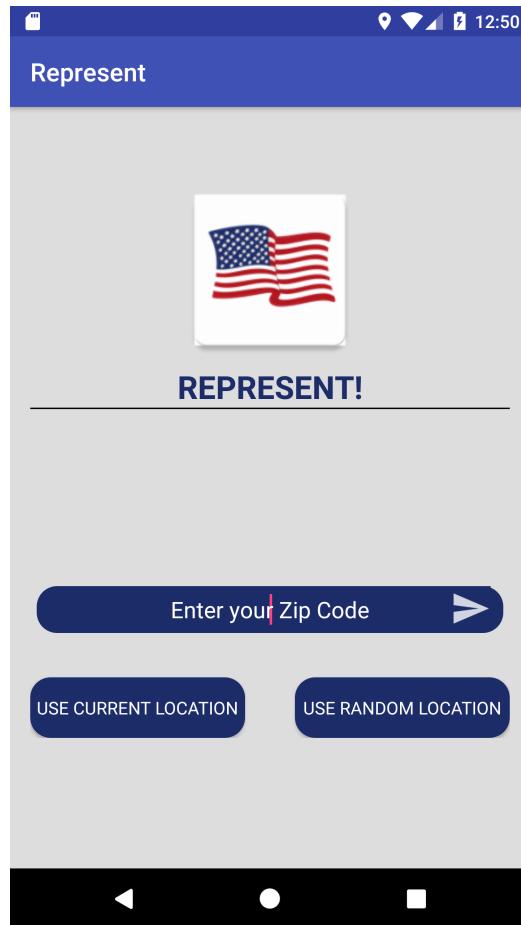
CS160 - User Interface and Design Development
Professor Paulos



Documentation

The way this mobile app works is that the user chooses a particular region in the United States to know who the congressional members for that region are.

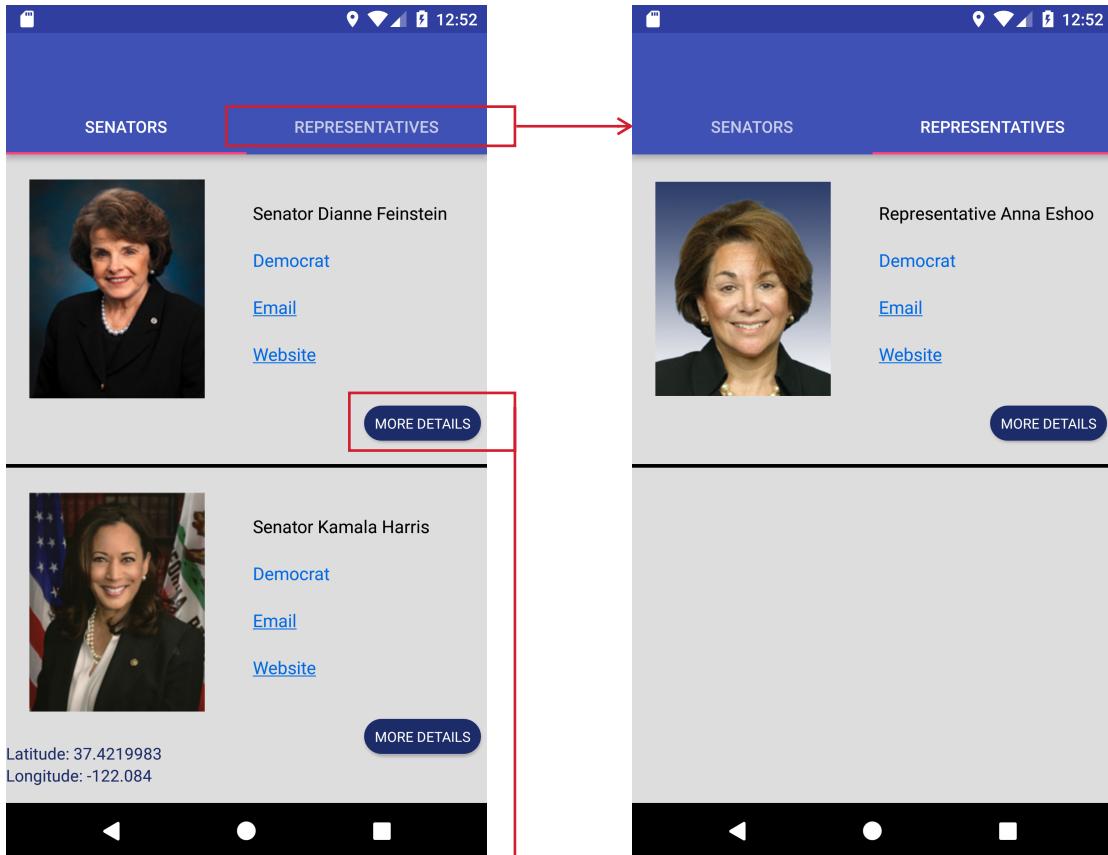
HOME SCREEN



This is the home screen, where the user can choose one of the following actions to find the congressional representative(s) and senators for a particular region.

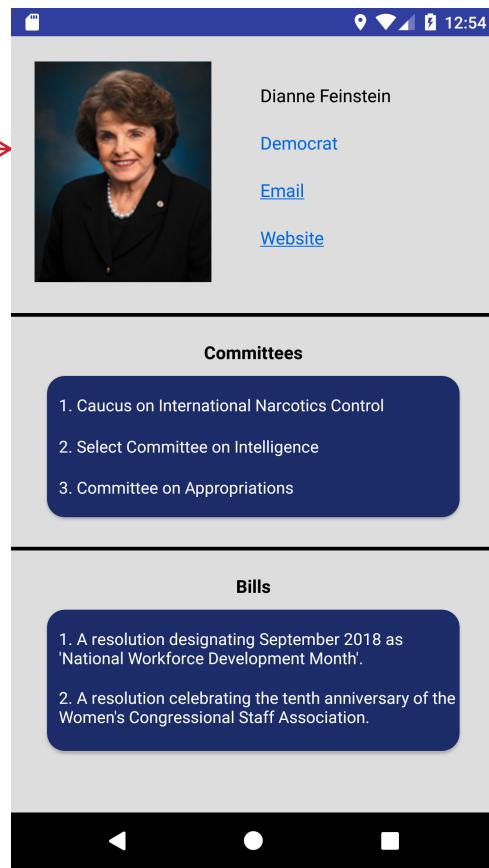
1. Enter his or her **Zip Code** in the EditText above.
2. Use his or her **Current Location**.
3. Generate a **Random Location** (i.e. latitude, longitude) in the United States.

CURRENT LOCATION

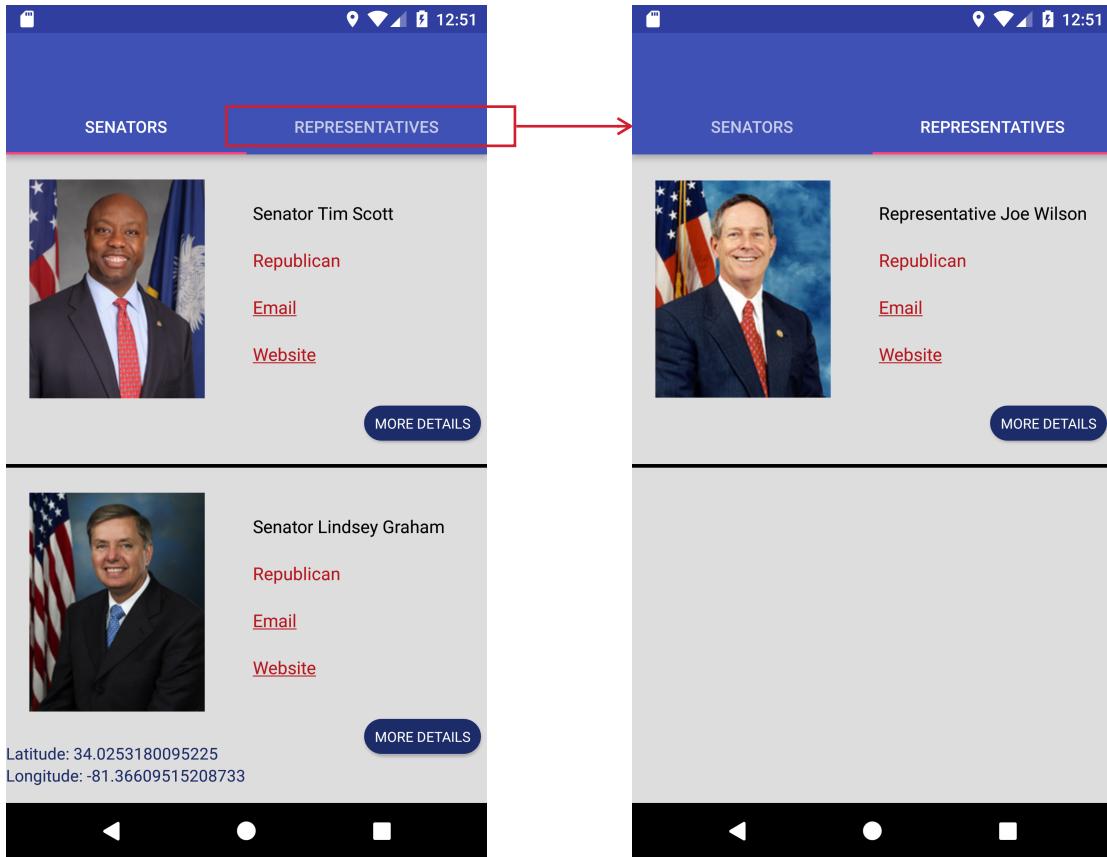


If the user chooses **Use Current Location** from the home screen, the app displays the senators and representatives for that region. Since I was in Berkeley when I ran the app, it gave me latitude and longitude values shown above*. The GeoCodio API that uses latitude/longitude values to find the respective senators and representatives for that region can be found in [TabFragment1.java](#) and [TabFragment2.java](#), respectively. Furthermore, if the user clicks on **MORE DETAILS**, the app displays the three most recent committees and two most bills for that senator/representative using the ProPublica API. This can be found in [MoreDetailsActivity.java](#).

*Note: I have displayed latitude and longitude values as an indication that my API works correctly and that I haven't hard-coded these values.



RANDOM LOCATION



If the user chooses **Use Random Location** from the home screen, the app generates a random location in the United States and displays the senators and representatives for that region. Specifically, to generate the random location, I approximated the minimum and maximum values for latitude (**minimum: 25.00°, maximum: 45.99°**) and longitude (**minimum: 71.00°, maximum: -115.99°**), respectively, for the United States. I then calculated a random latitude value within the latitude range and a random longitude value within the longitude range. As shown in the top left image*, this yielded a value of **latitude: 34.03°** and **longitude: -81.37°**, which falls in South Carolina. This feature can be found in [LoginActivity.java](#).

*Note: I have displayed latitude and longitude values as an indication that my API works correctly and that I haven't hard-coded these values.

RANDOM LOCATION (Cont'd)

Pictured below is the **More Details** information for Senator Lindsey Graham.

The image displays two side-by-side screenshots of a mobile application interface, likely from an Android device, showing profiles of US senators. Both screens have a blue header bar at the top with icons for signal strength, battery, and time (12:51 for the left, 12:52 for the right). Below the header, there are tabs for "SENATORS" and "REPRESENTATIVES".

Left Screen (Senator Tim Scott):

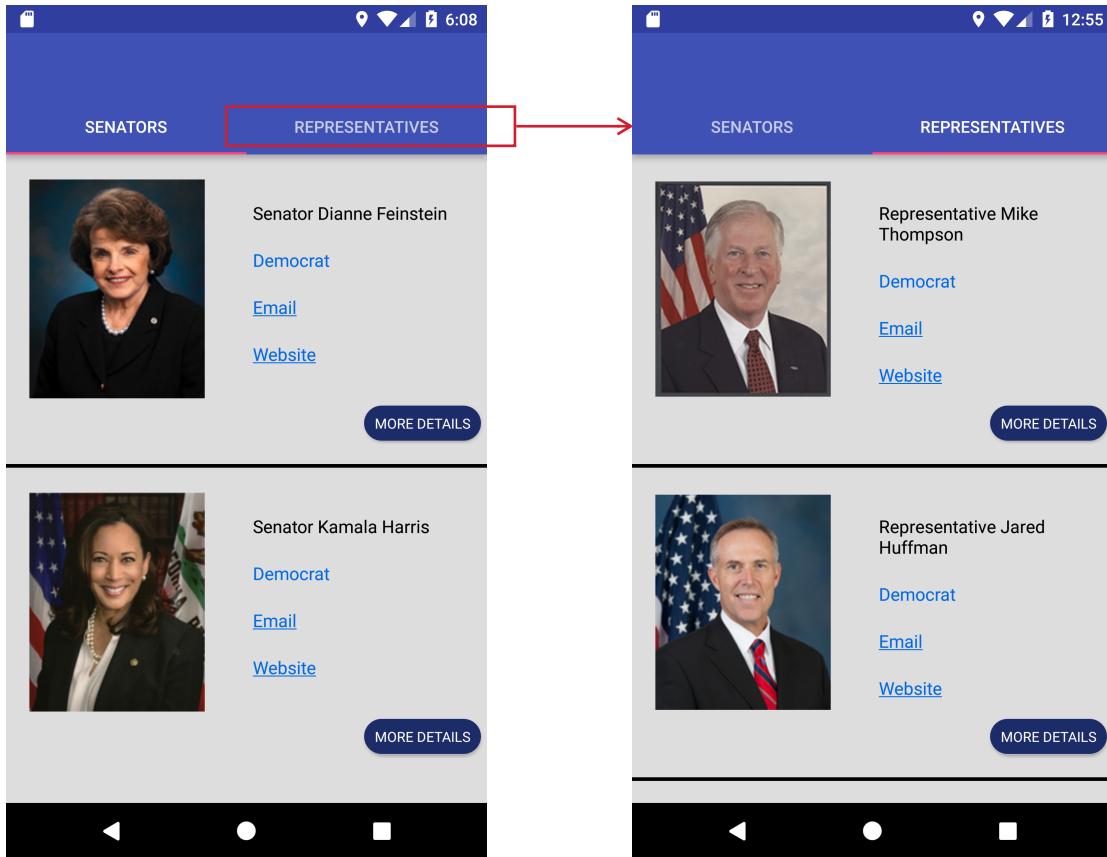
- Portrait of Senator Tim Scott.
- Name: Senator Tim Scott
- Party: Republican
- Links: [Email](#), [Website](#)
- A blue "MORE DETAILS" button is located at the bottom right.

Right Screen (Senator Lindsey Graham):

- Portrait of Senator Lindsey Graham.
- Name: Lindsey Graham
- Party: Republican
- Links: [Email](#), [Website](#)
- Committees:**
 - 1. Committee on Appropriations
 - 2. Committee on Armed Services
 - 3. Committee on the Budget
- Bills:**
 - 1. A resolution designating October 8, 2018, as 'National Hydrogen and Fuel Cell Day'.
 - 2. A bill to redesignate the Reconstruction Era National Monument as the Reconstruction Era National Historical Park, and for other purposes.

A red arrow points from the "MORE DETAILS" button on the left screen to the "MORE DETAILS" button on the right screen.

ZIP CODE



If the user chooses **Enter your Zip Code** from the home screen, the app calls the GeoCodio API to find the respective congressional members for that zip code. As mentioned earlier, this can be found in `TabFragment1.java` and `TabFragment2.java` for the senators and representatives, respectively. To remain consistent, I decided to indicate which members were **Democrats** and which members were **Republicans** by color-coding the political party, email, and website fields either blue or red, respectively.

ZIP CODE (Cont'd)

Pictured below is the **More Details** information for Representative Jared Huffman.

The image consists of two side-by-side screenshots of a mobile application interface. Both screenshots show a blue header bar with navigation icons and the time '12:55'. The left screenshot has tabs for 'SENATORS' and 'REPRESENTATIVES', with 'REPRESENTATIVES' being the active tab. It lists 'Representative Mike Thompson' (Democrat) with links for Email and Website, and a 'MORE DETAILS' button. Below this is another section for 'Representative Jared Huffman' (Democrat) with similar links and a 'MORE DETAILS' button. A red arrow points from the 'MORE DETAILS' button under Huffman's name in the left screenshot to the detailed view of Huffman in the right screenshot. The right screenshot shows a larger photo of Jared Huffman against an American flag background. Below the photo, his name 'Jared Huffman' and party 'Democrat' are listed, along with links for 'Link' and 'Website'. A 'Committees' section lists three committees: 'Committee on Natural Resources', 'Committee on Transportation and Infrastructure', and 'Committee on Urban Development'. A 'Bills' section contains two entries: 'A resolution designating September 2018 as National Workforce Development Month' and 'A resolution celebrating the tenth anniversary of the Women's Congressional Staff Association'.

Additional Screenshots

The figure consists of three screenshots of a mobile application interface. The top screenshot shows a list of senators and representatives. The middle screenshot shows a detailed view of Senator Dianne Feinstein's profile with links to her email and website. The bottom screenshot shows the "E-Mail Me" contact form for Senator Feinstein.

Screenshot 1: Senator List

SENATORS REPRESENTATIVES

Senator Dianne Feinstein
Democrat
[Email](#)
[Website](#)
[MORE DETAILS](#)

Senator Kamala Harris
Democrat
[Email](#)
[Website](#)
[MORE DETAILS](#)

Screenshot 2: Senator Profile (Dianne Feinstein)

https://www.feinstein.senate.gov/put

MAIN MENU EN ESPANOL f t y r

United States Senator for California DIANNE FEINSTEIN

E-MAIL ME
Home / Contact / E-Mail Me

Screenshot 3: E-Mail Me Form (Dianne Feinstein)

Note: Fields marked with an * are required.

Every e-mail I receive is read, and your opinions are carefully considered.

Please send me a note using the e-mail form below. If you are a California resident and would like a response to your

EMAIL DIANNE **HELP WITH CASEWORK** **FLAG REQUESTS**

VISITING D.C. **APPLY FOR GRANTS** **BREAKFAST WITH DIANNE**

NEWSLETTER SIGNUP

Enter your email >

If the user clicks on [Email](#), then the application redirects the user to a URL that allows the user to contact that senator or representative. Similarly, if the user clicks on [Website](#), then the application opens the senator's/representative's website in the browser.