

Washington State University
School of Electrical Engineering and Computer Science
Spring 2018

CptS 479 Mobile Application Development

Homework 3

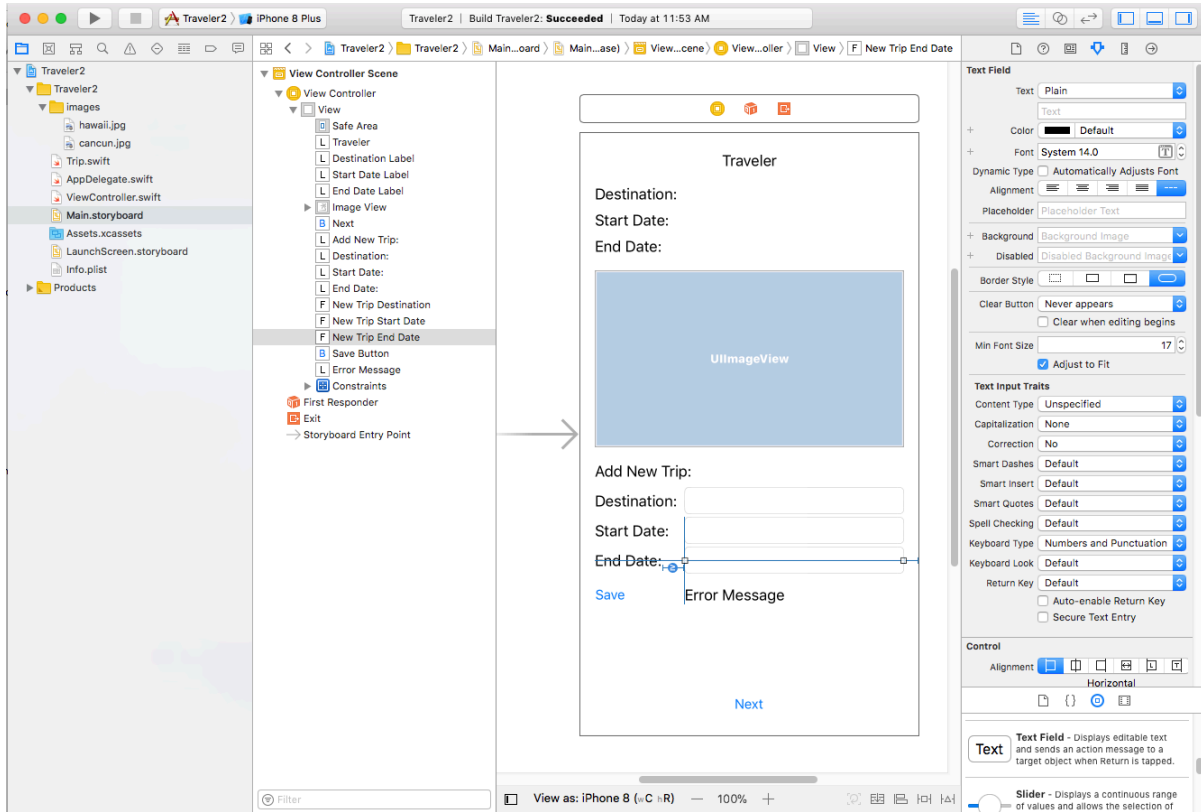
Due: January 30, 2018 (11:59pm)

General Instructions: Put the entire app directory into one zip file and submit as an attachment under Content → Homework 3 for this course on the Blackboard Learn system by the above deadline. Note that you may submit multiple times, but only the most recent entry submitted before the above deadline will be graded. Make sure all files are actually copied into the app directory and not merely referenced elsewhere on your computer.

For this homework you will add to the HW2 Traveler app the ability to enter information about new trips. We'll just do the destination, start date and end date for now, and add the ability to include an image in a later version. See screenshots below. Specifically,

1. Add a “Add New Trip:” label below the image, and then label / text field rows for Destination, Start Date and End Date. Start and end date text fields should set Correction to No and Keyboard Type to Numbers and Punctuation. All three text fields should initially be set to the empty string.
2. Add a “Save” button below the End Date label, and add an Error Message label next to the button. The label should be initially empty.
3. Since this view is getting filled up, you do not need to support landscape orientation for this app. If you use the iPhone 8 Plus simulator, the keyboard should not cover up the End Date text field when entering the date. If it does, you can reduce the vertical spacing around the elements in the view.
4. Connect all these elements to the view controller; don't forget to set the text field delegates. And make sure the keyboard is dismissed when the user taps Return.
5. When the user taps the Save button, you should do the following:
 - a. Check that the Destination field is not empty. If it is, then display error message “Missing destination.”
 - b. Check that the Start Date field is a valid date. You can do this by trying to convert the text to a date using DateFormatter. If not a valid date, then display error message “Invalid start date.”
 - c. Similarly check the End Date. If not a valid date, then display error message “Invalid end date.”
 - d. If the fields are all valid, then create a Trip instance, add it to the end of your “trips” array, clear the text fields and error message, and advance your view to show this new trip.

Screenshot: Storyboard



Screenshots: Device

