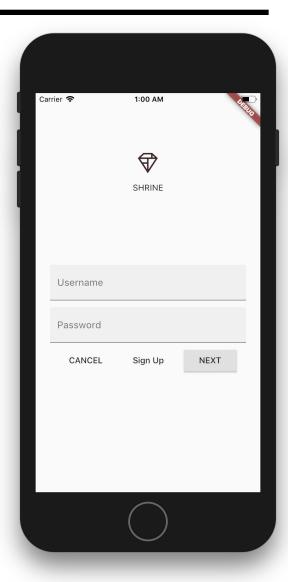
MIDTERM

Take home

Due: 2022.10.8 23:50

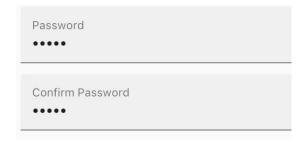
0. Sign In&Up

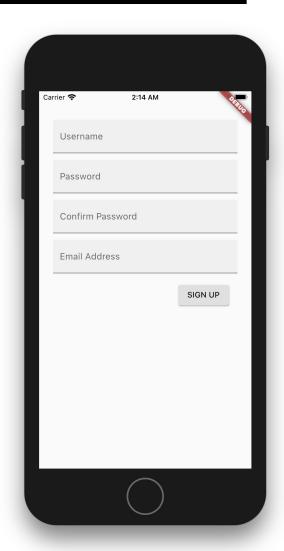
- If you share your source code, you will get **F** for this course.
- Flutter version should be higher than 3.0.
 - Follow the guideline on Hisnet(LMS) for submission. (file format)
 - Use MDC-102 based source code.
 - Overflow(or Error) must not be occured.
- Sign In Page
 - Put the **Logo Image** on the top of the screen.
 - Create an **Username** and a **Password** text fields
 - Create CANCEL, SIGN UP, NEXT buttons (sign up button should be placed between Cancel and Next.)
 - The Sign Up Button has to navigate to the Sign Up Page.
 - The **Next Button** has to navigate to the **Main Page**.
 - If you press the **Cancel Button**, the two text fields (Username, Password) have to be cleared (refer to the screenshot).



0. Sign In&Up

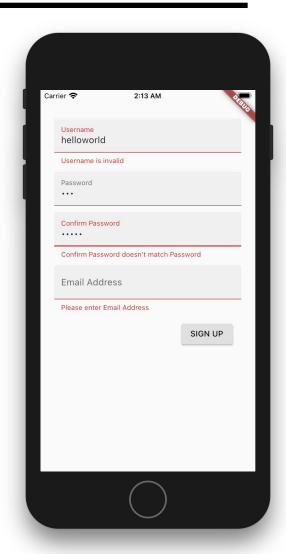
- Sign Up Page
 - Create an Username, a Password, a Confirm Password, and an Email Address text field.
 - The passwords must be written in **obscured** text. (*Password*, *Confirm Password*)
 - The Sign Up Button has to navigate to the Sign In Page.





0. Sign In&Up

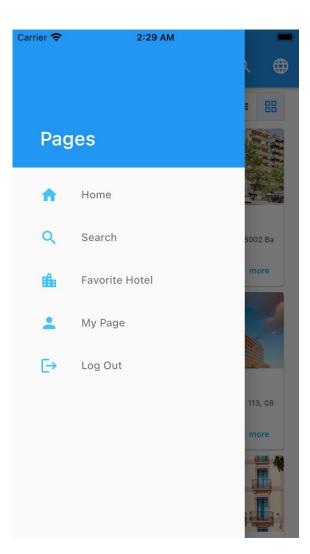
- Sign Up Page Validator
 - Each text field must have a validator that works when it is empty.
 - https://flutter.io/cookbook/forms/validation/
 - Username has to be a combination of at least 3 alphabet characters and at least 3 numbers.
 (Validation Message: "Username is invalid")
 - Password and Confirm Password have to match. Add validation message to Confirm Password textfield. (Validation Message: "Confirm Password doesn't match Password")



1. Drawer

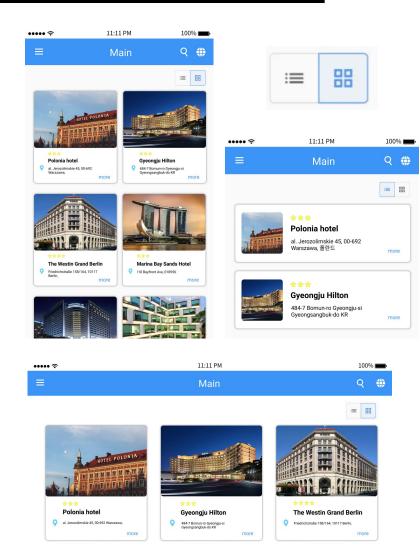
Drawer

- Menu: Home, Search, Favorite Hotels, My page, Logout
- All pages should be navigated by Named Routes
 https://flutter.io/cookbook/networking/named-routes/
- The **Menu Icons** should be placed in the leading position (home, search, location_city, person, logout)
- Logout button should navigate to Sign In Page



2. Home

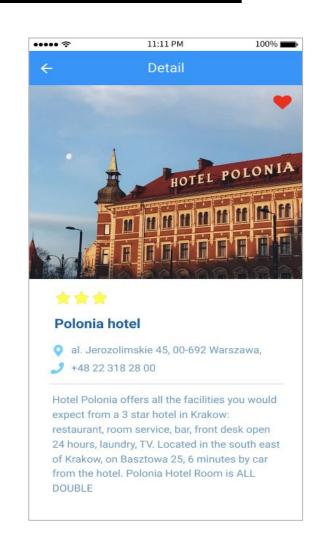
- Use MDC-102 for layout
 - The App bar has three icon buttons(menu, search, language)
 - If you click the **hamburger menu**, a **Drawer** comes out
 - The **search icon** navigates to the **Search Page**(p.9)
 - The language icon navigates to 'https://www.handong.edu/ using url_launcher (https://pub.dev/packages/url_launcher)
 - At the bottom right of the appbar, create a ToggleButton that changes the view of the hotel list (ListView ← → GridView) https://material.io/components/buttons/flutter#toggle-button
- Card Layout
 - (For GridView) **Two Columns** by default. When you turn the screen, the cards should be appeared in **three columns** (UI based on orientation) https://flutter.io/cookbook/design/orientation/
 - GridView Card Layout: Top: Hotel Image, Bottom: Stars & Hotel name & location
 - ListView Card Layout: Left: Hotel Image, Right: Stars & Hotel name & location
 - The "more" button navigates to the Detail Page.
 - There must be at least 6 cards



2. Home - Detail

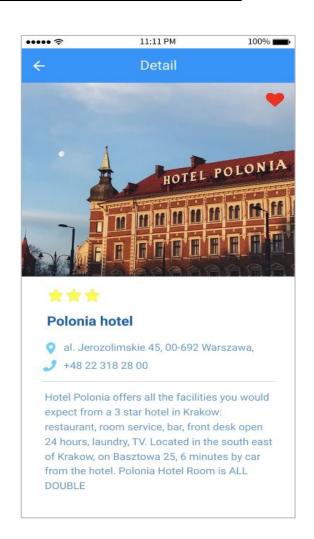
Hotel detail Page

- The hotel image is displayed at the top of the page using Hero Animation. The image from Home Page, both grid and list views, directly moves to be displayed here.
 - https://flutter.io/animations/hero-animations/
- When navigated to detail page, "animated_text_kit" should be applied to hotel name. (Any type of animation is accepted. It just has to be noticeable.) https://pub.dev/packages/animated_text_kit
- When navigating to the detail page, use the index value or the object of the hotel's main page. (Do not Hard Code!)
- Write the hotel description under the image. (Hotel stars, Hotel name, Location, Phone number, Description)
 (Icons: star, location_on, phone)



2. Home - Detail

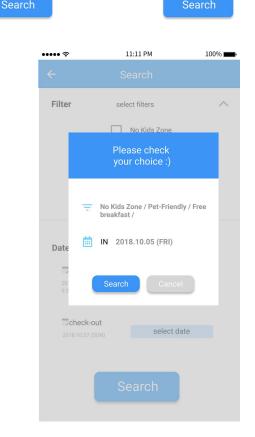
- Hotel detail Page
 - Use **Stack** to display a heart icon on the right top of the photo. https://api.flutter.dev/flutter/widgets/Overlay-class.html
 - If you click the IconButton, a hotel is saved on the favorite
 list
 - If you **Double Tap** the photo of the hotel, the heart icon turns to red and a the hotel should be saved on the **favorite** list. Use **InkWell** for this.
 - https://api.flutter.dev/flutter/material/InkWell-class.html
 - The saved state should be shown by the heart icon (Color: red, Icon: favorite or border_favorite)
- The contents(such as Hotel stars, Hotel name, Location, Phone number, Description) of each hotel's description does not affect your score. Don't worry:)



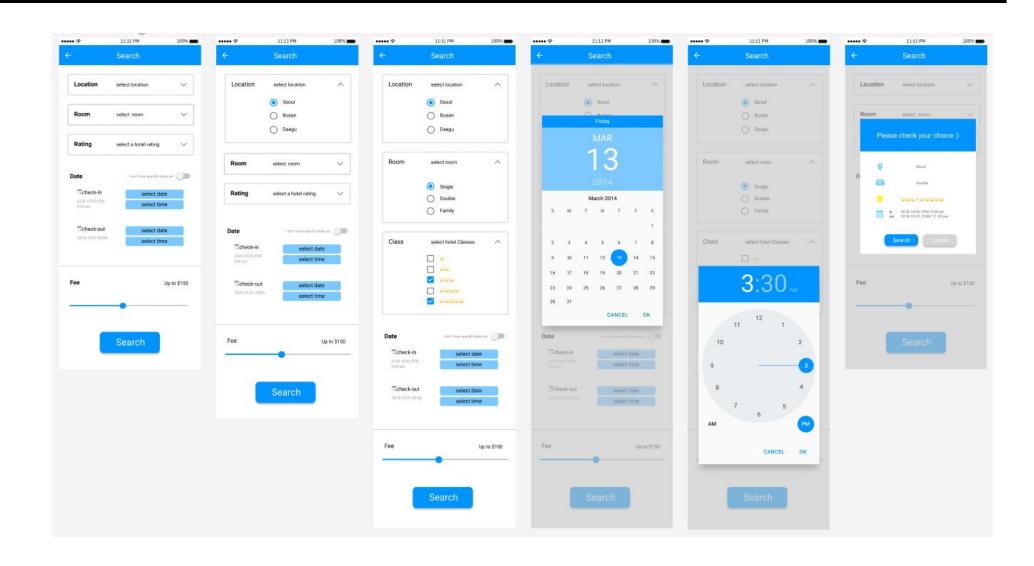
3. Search

2018.10.05 (FRI

- Add a Search Menu to the drawer
- Search Page
 - Use ListView and ExpansionPanel widget.
 (ExpansionPanel is a child of the widget of ListView)
 https://api.flutter.dev/flutter/material/ExpansionPanel-class.html
 - Filter section: Create **checkboxes** where you can select multiple filters.
 (filters: No Kids Zone, Pet-Friendly, Free breakfast, Free Wifi, Electric Car Charging)
 - https://api.flutter.dev/flutter/material/Checkbox-class.html
 - Date section: Add a **DatePicker** to select check-in & check-out-date.
 https://api.flutter.dev/flutter/material/showDatePicker.html
 - If you click the Search button at the bottom of the page, an Alert Dialog should be popped.
 - In the dialog box, all the contents of the options you have chosen should appear. https://api.flutter.dev/flutter/material/AlertDialog-class.html

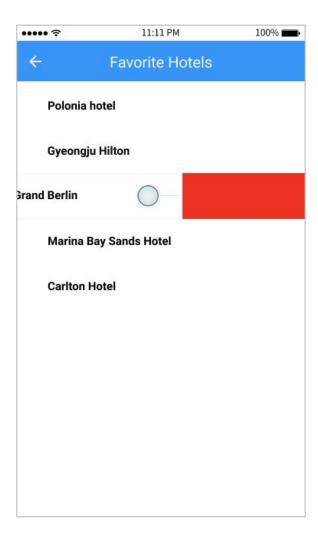


Search Page



4. Favorite Hotels Page

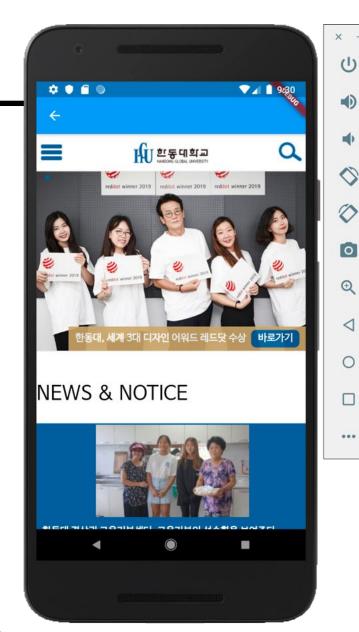
- Add a Favorite Hotels Menu to the drawer
- Favorite Hotels Page
 - The Saved Favorite Hotels are listed using ListTile.
 - If you swipe an item, the item should be deleted
 - https://flutter.io/cookbook/gestures/dismissible
 - You can also use **flutter_slidable package** to delete your item. https://pub.dev/packages/flutter_slidable



5. Website

- Add <u>Language Icon</u> to the AppBar of **Main Page**
- Website
 - Use WebView Plugin
 - https://pub.dev/packages/webview_flutter
 - When Clicking the language icon in Appbar of Main Page, go to the handong university home page.

https://www.handong.edu/



1

0

5. My Page

- Add a My Page Menu to the drawer
- Live Profile
 - Use **Lottie** for your live profile picture. (Any type of animation is accepted. It just has to be noticeable.)
 (about Lottie, https://pub.dev/packages/lottie,
 https://lottiefiles.com/)
 - Use the ClipOval widget to cut the live profile picture(lottie) round.
 - https://api.flutter.dev/flutter/widgets/ClipOval-class.html
 - Put your name and student ID number below the profile. (This is considered as you signing to observe the Handong Honor Code.)
 - Using Switch widget, change the state of your live profile picture(lottie) > Left: Day(Icons.wb_sunny), Right: Night(Icons.nightlight_round)

My Page Handong Kim 22100123 My Favorite Hotel List

11:11 PM

https://api.flutter.dev/flutter/material/Switch-class.html

5. My Page

- Add a My Page Menu to the drawer
- My Page
 - Add Auto-playing Carousel in My Page
 https://pub.dartlang.org/packages/carousel_slider
 - Fill the Carousel with "Favorite" Hotel Images
 - Use **Stack** to overlay "**Hotel name**" on the background images)
 - Make a list of the saved favorite hotels using parallax scroll https://flutter.dev/docs/cookbook/effects/parallax-scrolling
 - Make a list of the saved favorite hotels using Card and ListView.
 - In Card, use **Stack** for stacking favorite hotels' image, name and location. Refer to the sample screen.
 - When clicking the Hotel Image, navigate to the detail page of each hotel using InkWell.
- You don't need to consider circle border in card, text size etc. Score only depends on hyphens.

