



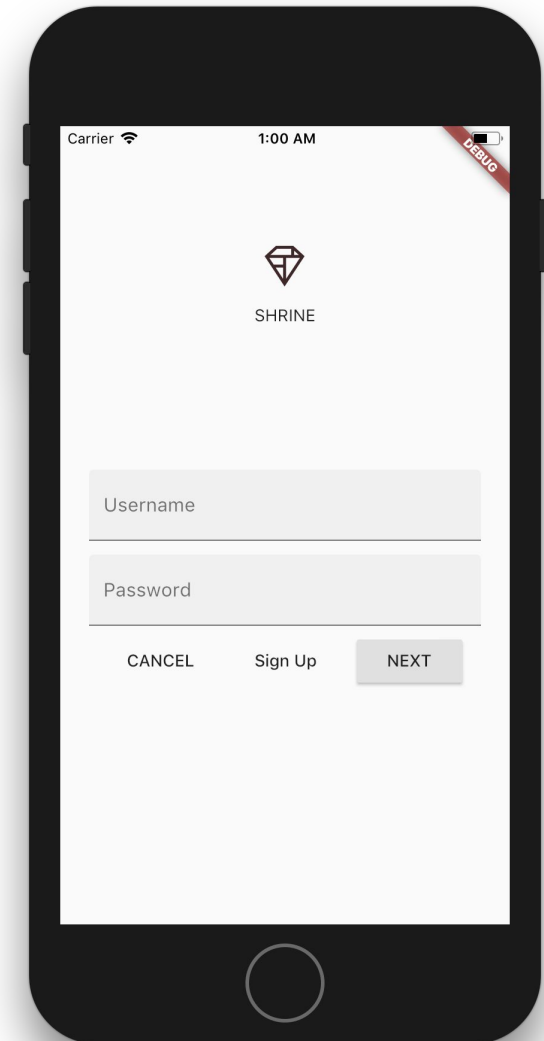
# MIDTERM

Take home

***Due: 2021.4.11 23:50***

# 0. Sign In&Up

- If you share your source code, you will get **F** for this course.
- You can use MDC-102 based source code.
  - Overflow(or Error) must not be occurred.  
<https://medium.com/flutter/how-to-debug-layout-issues-with-the-flutter-inspector-87460a7b9db>
- 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 have to be clear.



# 0. Sign In&Up

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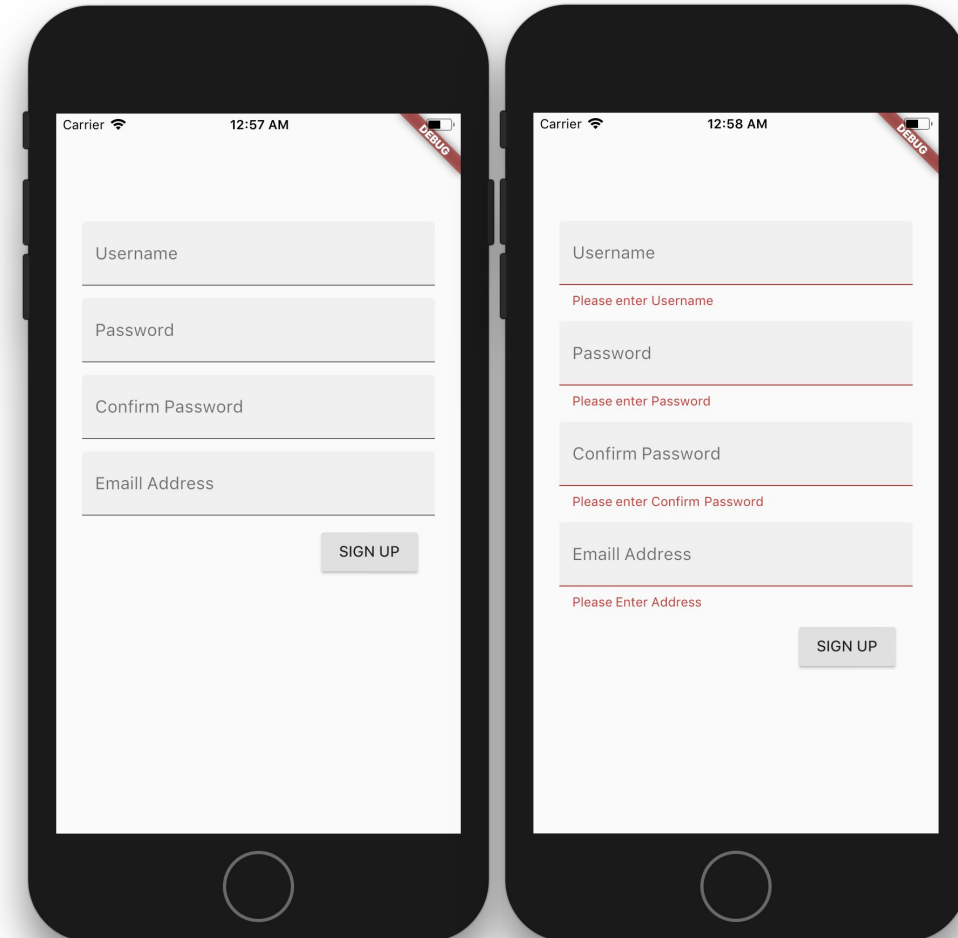
- Sign Up Page
  - *Create an Username, a Password, a Confirm Password, and an Email Address text field.*
  - Each text field must have a validator that works when it is empty.
  - <https://flutter.io/cookbook/forms/validation/>
  - The passwords must be written in **obscured** text. (***Password, Confirm Password***)
  - The **Sign Up Button** has to navigate to the **Sign In Page**.

Password

•••••

Confirm Password

•••••



The image shows two smartphone screens side-by-side, displaying a sign-up form. The left screen shows the form with empty fields: Username, Password, Confirm Password, and Email Address. The right screen shows the same form with red validation messages below each field: 'Please enter Username', 'Please enter Password', 'Please enter Confirm Password', and 'Please Enter Address'. Both screens have a 'SIGN UP' button at the bottom right. The status bar at the top of each screen shows 'Carrier', signal strength, and the time (12:57 AM and 12:58 AM respectively).

Carrier 12:57 AM

Username

Password

Confirm Password

Email Address

SIGN UP

Carrier 12:58 AM

Username

Please enter Username

Password

Please enter Password

Confirm Password

Please enter Confirm Password

Email Address

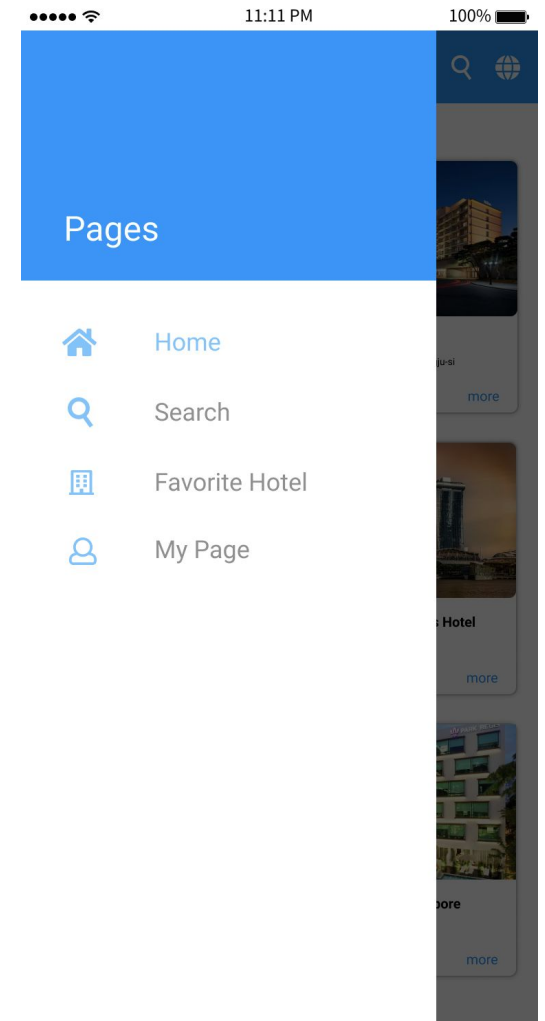
Please Enter Address

SIGN UP

# 1. Drawer

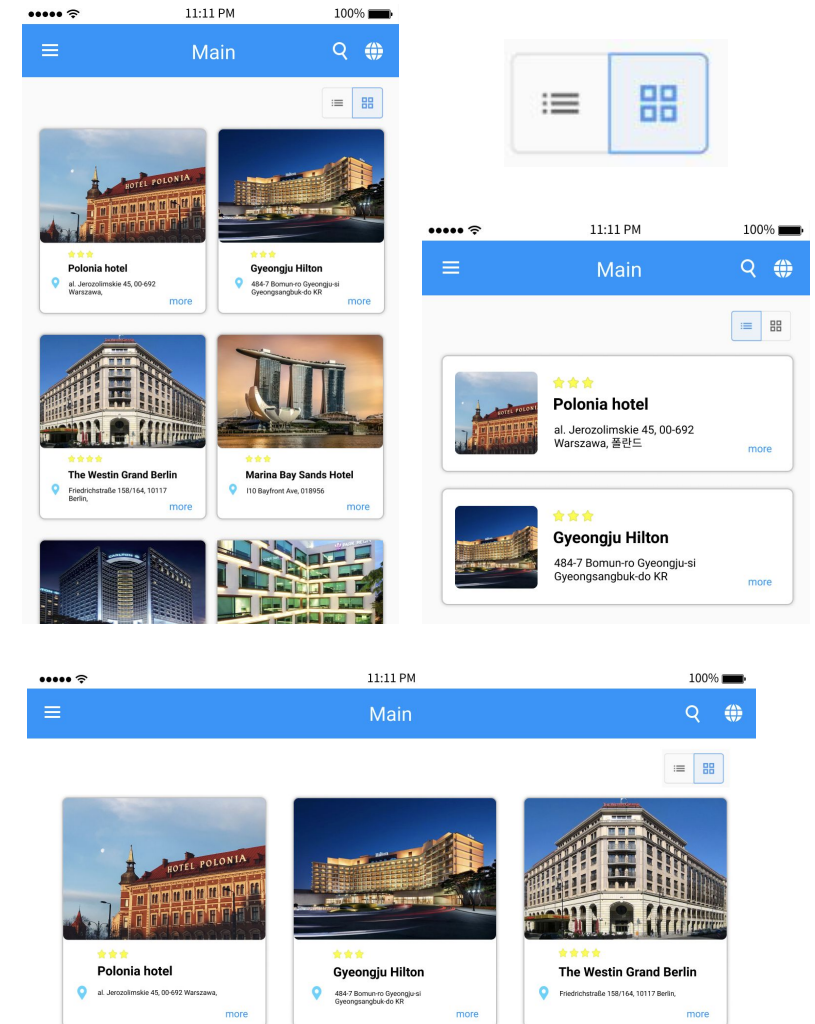
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- Drawer
  - Menu: Home, Search, Favorite Hotels, ~~Website~~, My page
  - Each menu should be navigated by **Named Routes**  
<https://flutter.io/cookbook/networking/named-routes/>
  - The **Menu Icons** should be placed in the leading position  
(home, search, location\_city, person)



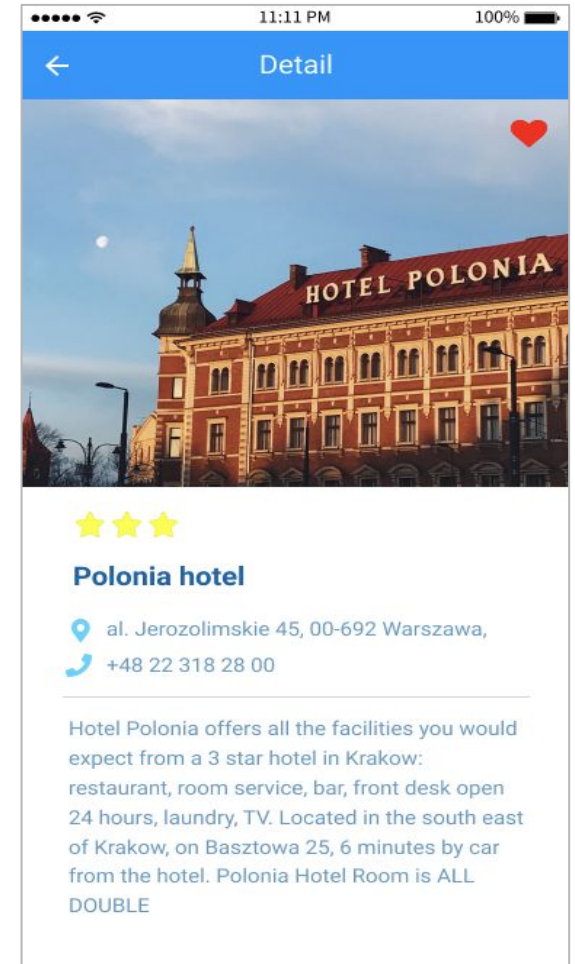
# 2. Home

- 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.8)
  - The **language icon** navigates to '<https://www.handong.edu/>' using **url\_launcher** ([https://pub.dev/packages/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  $\leftrightarrow$  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**(p.6)
  - There must be **at least 6 cards**.



## 2. Home - Detail

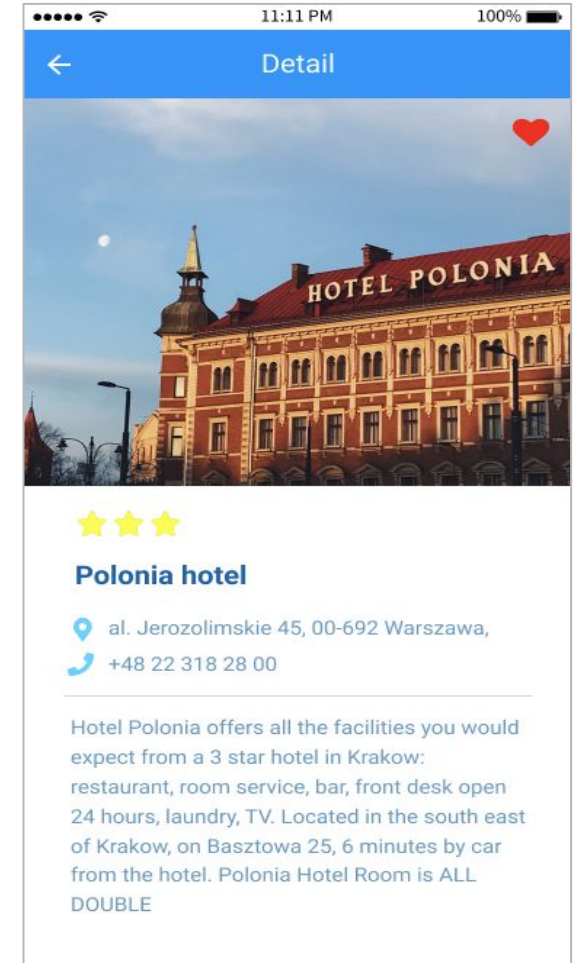
- Hotel detail Page
  - The hotel image is displayed at the top of the page using **Hero Animation**  
<https://flutter.io/animations/hero-animations/>
  - When navigating to the detail page, use the index value or the object of the hotel's main page. (Do not Hard Code!)
  - Write the hotel description under the image. (Hotel stars, Hotel name, Location, Phone number, Description) (Icons: star, location\_on, phone)
- ❖ *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 :)*



## 2. Home - Detail

### ■ Hotel detail Page

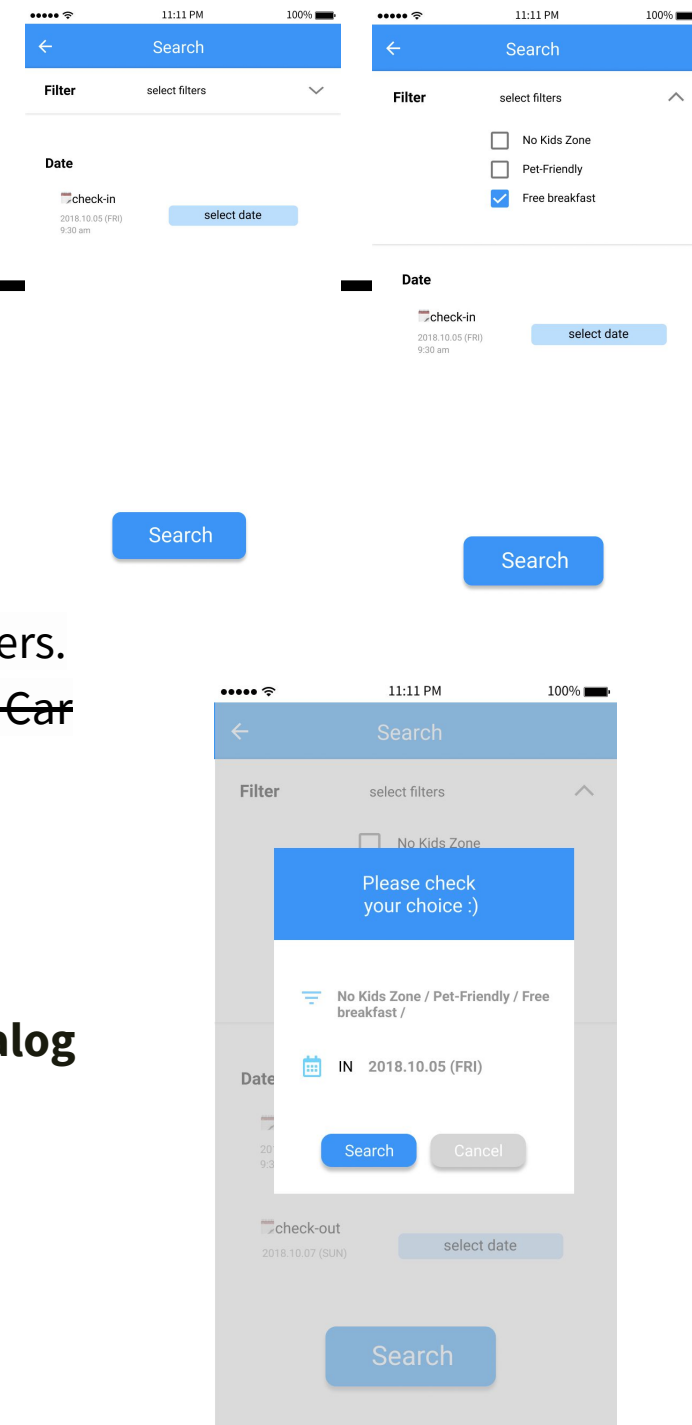
- Use **Stack** to display a heart icon on the right top of the photo. <https://docs.flutter.io/flutter/widgets/Overlay-class.html>
- ~~If you click the **IconButton**, a hotel is saved on the **favorite list**~~
- If you **Double Tap** the photo of the hotel, the heart icon turns to red and a the hotel should be saved on the **favorite list**. <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)



# 3. Search

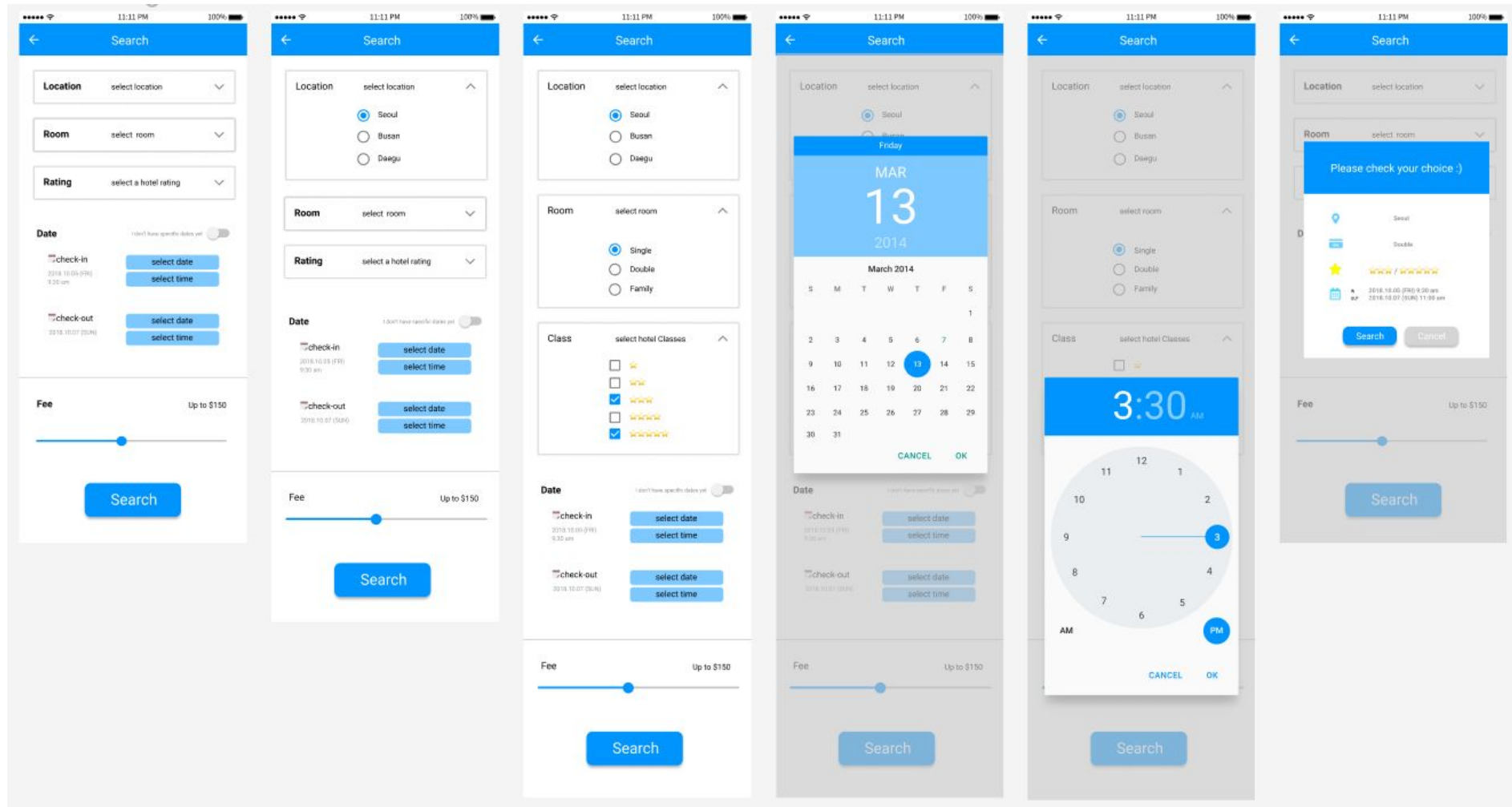
- Add a **Search Menu** to the drawer
- Search Page
  - Use **ListView** and **ExpansionPanel** widget.  
(**ExpansionPanel** is a child of the widget of **ListView**)  
<https://docs.flutter.io/flutter/material/ExpansionPanel-class.html>
  - Filter section : Create **checkboxes** where you can select multiple filters.  
(filters: No Kids Zone, Pet-Friendly, Free breakfast, ~~Free Wifi, Electric Car Charging~~)  
<https://docs.flutter.io/flutter/material/Checkbox-class.html>
  - Date section: Add a **DatePicker** to select check-in & ~~check-out~~ date.  
<https://docs.flutter.io/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://docs.flutter.io/flutter/material/AlertDialog-class.html>





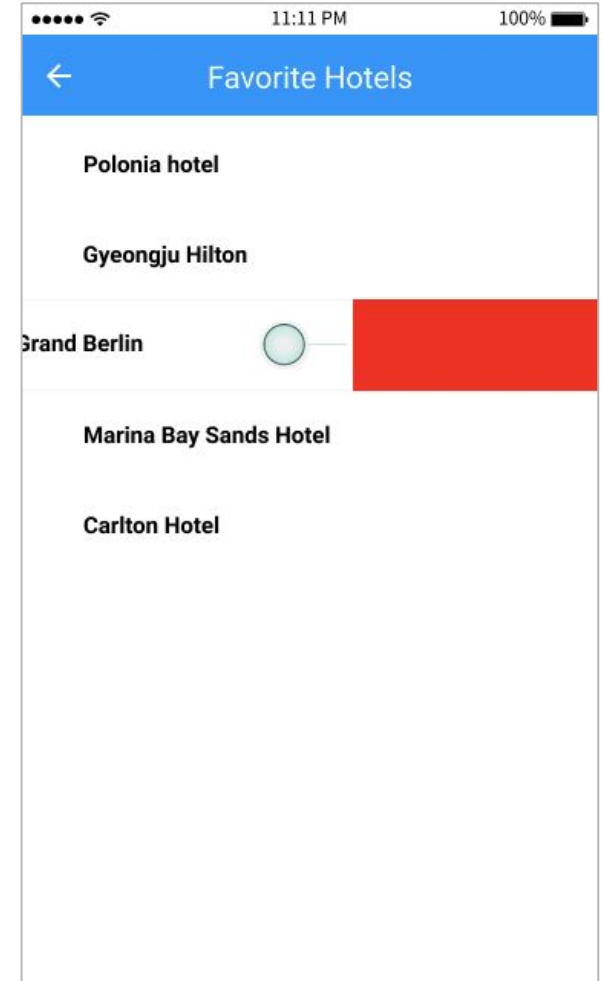
# 과거의 Search Page



# 4. Favorite Hotels Page

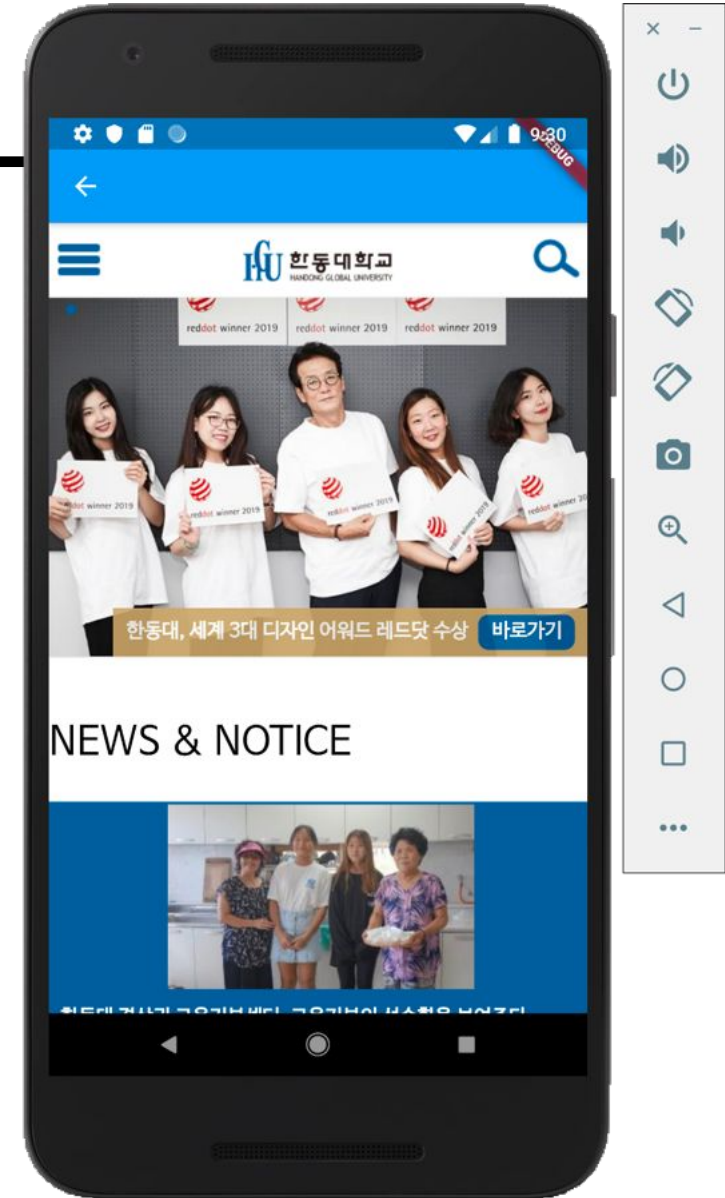
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- Add a Favorite Hotels Menu to the drawer
- Favorite Hotels Page
  - The **Saved Favorite Hotels** are listed using ListTile.
  - If you **swipe** an item, the item should be deleted
    - You can also use **flutter\_slidable package** to delete your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



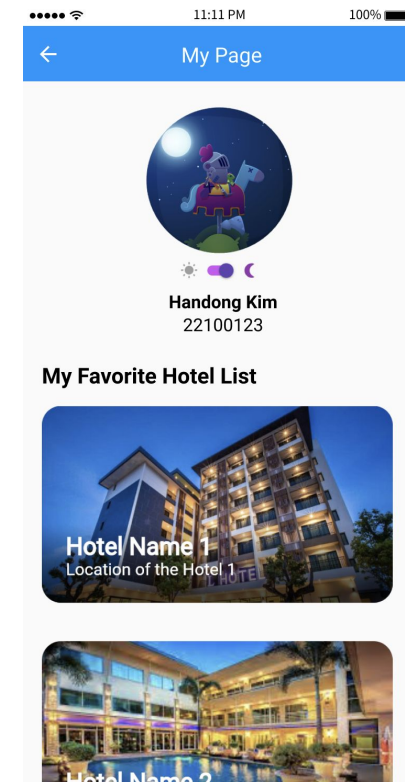
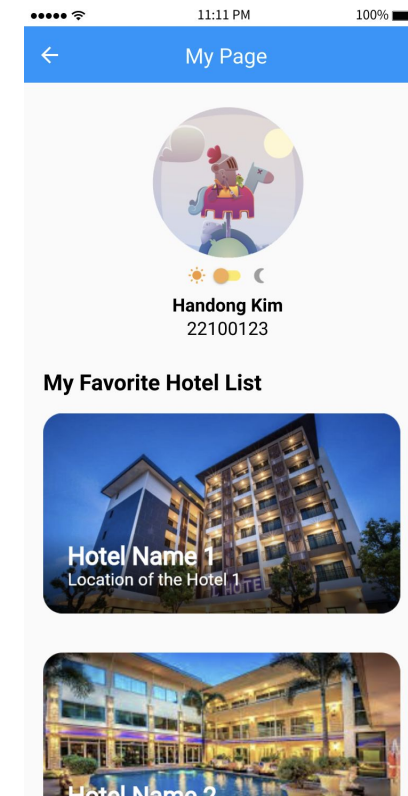
# 5. Website

- ~~Add Language Icon to the AppBar of Main Page~~
- ~~Website~~
  - Use ~~WebView~~ Plugin → ~~url\_launcher~~  
[https://pub.dev/packages/webview\\_flutter](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/>



# 5. My Page

- Add a My Page Menu to the drawer
  - Live Profile
    - Use a **rive file** for your live profile picture.  
(about Rive: <https://pub.dev/packages/rive>,  
<https://youtu.be/0ihqZANziCk>)  
(Download the rive file from this website:  
<https://rive.app/preview/?filename=knight063>)
    - Use the ClipOval widget to cut the live profile picture(rive) round.  
<https://api.flutter.dev/flutter/widgets/ClipOval-class.html>
    - Using Switch widget, change the state of your live profile picture(rive) → Left: Day(Icons.wb\_sunny), Right: Night(Icons.nightlight\_round)  
<https://api.flutter.dev/flutter/material/Switch-class.html>
- Demo Video Link: [demo video](#)



# 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](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>
  - When clicking the Hotel Image, navigate to the detail page of each hotel.

