



**King Fahd University of Petroleum & Minerals**  
**College of Computing and Mathematics**  
**Information and Computer Science Department**  
**SWE 206: Introduction to Software Engineering (2-3-3)**  
**Second Semester 2023-2024 (232)**  
**Lab13: Human Computer Interaction**

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**Objectives:**

To gain experience with:

- User interface guidelines on major platforms.
- Ability to identify the best screen component for specific task.
- Hand on experience on UI design tools

**Task:**

Use the Apple and Material Design guidelines found in the resources below to compare between the following components in both platforms(iOS/iPadOS and Android):

- Buttons
- Floating Action Buttons (FAB)
- Lists
- Pickers

Use Figma, or any other designing tool, to design some screens for the project that follows the iOS guidelines and the Material Design guidelines such that they have the following:

- The application has two different views from the admin perspective, one for made reservations, one for the events.
- The ability to change from one screen to another view must be appropriate for each platform. It also includes a button to create a new reservation/event.
- Reservation Page shows all the teams in the research center and once a reservation is clicked it shows the time, place, and reasoning of the reservation in an appropriate way.
- Events' Page shows all the events and who created each event and once an event clicked shows the time, place, the title and a list of who signed up for the event.
- You don't have to make the design interactive. Static Pictures are fine.
- Since the application is for KFUPM, we choose the KFUPM colors found here: <https://mediacenter.kfupm.edu.sa/brand-guidelines/>

## Resources:

You can use the following links to prepare your report.

- iOS Guidelines  
<https://developer.apple.com/design/human-interface-guidelines/components/all-components> (filter for iOS and iPadOS)
- Material design guidelines  
<https://material.io/>
- Figma iOS UI Kit  
<https://www.figma.com/community/file/1121065701252736567>
- Figma Material Design UI Kit  
<https://www.figma.com/community/file/1035203688168086460>

## Submission:

Submit **one single PDF** file (in Blackboard) that has the following structure:

- 1) Cover page has the course name, lab number, lab topic, group section and number, students' names, and IDs.
- 2) Page listing each member contributed tasks.
- 3) The comparison between the components mentioned above
- 4) The designed screens for both iOS and Material Design guidelines.