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**Aim:** Selecting features for application development, the features should comprise of:

1. Common widgets
2. Should include icons, images, charts etc.
3. Should have an interactive Form
4. Should apply navigation, routing and gestures
5. Should connect with FireBase database

**Messenger App**

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| **Screen-shot** | **Features** |
|  | **Login/Signup-Screen**   1. **Signup/Login** 2. **Images of available items** 3. **Icon of Messenger** 4. **Firebase connectivity for login** 5. **Login button** 6. **Create new account button** |
|  | **Home-Page:**   1. **Scaffold is a layout structure widget provided by Flutter. It implements the basic material design visual layout structure of the Flutter app. It provides functionality for the app bar, body, bottom navigation bar.** 2. **AppBar is a material design app bar typically used at the top of the screen to display the title, leading widget, actions, and more. In this case, it displays the title "Chats" and an exit icon button.** 3. **ListView.builder is a widget used to efficiently display a large number of scrollable items in a list format. It creates items on-demand as the user scrolls, which improves performance.** 4. **GestureDetector is a widget used to detect gestures made by the user, such as tapping, dragging, and swiping. Here, it's used to make the user's profile pictures tappable, leading to the chat screen.** |
|  | **SideBar**   1. **The Drawer widget is a material design widget used to display a sliding panel from the edge of the screen. It typically contains navigation links or options for the user.** 2. **Each option in the sidebar is represented by a ListTile widget. ListTile is a material design widget used to represent a single fixed-height row that contains text, icons, or other widgets.** 3. **The Icon widget is used to display icons alongside the text labels in the sidebar options. Icons provide visual cues and help users understand the purpose of each option.** 4. **Inside each ListTile, a Navigator widget is used to handle navigation when a user taps on a sidebar option. It facilitates navigating to different screens or sections of the app** |
|  | **Stories Screen**   1. **Display image on the screen upon uploading from gallery** 2. **Stores images in Firebase database for 24hrs** 3. **Add to story button** 4. **Switched screens name highlighted** |
|  | **Archive:**   1. **The AppBar widget displays the app bar at the top of the screen. It typically contains the screen title and actions.** 2. **The ListView.builder widget is used to display a list of archived chat rooms. It creates items on demand, which is efficient for displaying a large number of items.** 3. **Padding: Each chat room widget is wrapped in a Padding widget to add padding around it.** 4. **GestureDetector: The GestureDetector widget is used to detect gestures on each archived chat room, such as tapping or long-pressing.** 5. **AlertDialog: When a chat room is long-pressed, an AlertDialog is displayed to confirm whether the user wants to archive the chat.** 6. **Firebase to fetch chats** |