## Create a Feed Screen

Native App Development

Time: 60 mins

### Introduction

In this class, the student/s will learn to add scrollable feed to the feed screen using const variable and FlatList component. Student/s will also learn to add like and comment icons and flag notification on clicking these icons.

### **New Commands Introduced**

data={feedsData}
 Stores the feedsData to fetch within <FlatList> component.

renderItem={({ item }) => Renders each item of the feed to the FeedCard file <FeedCard feed={item} />}

keyExtractor={(item) => Assigning a unique key to each item of the feedID item.feedId}

## Vocabulary

- A feed is a stream of content that you can scroll through. The feed is updated on a feed screen
  of an app.
- The FlatList component is an efficient way to display items in a scrollable list view.

# Learning Objectives

Student/s should be able to:

- **Recall** use of array to store the feed.
- **Demonstrate** how to display the feed.
- **Explain** how to use FlatList to scroll the feed.
- Add like and comment icon and notify when clicked.

### **Activities**

- 1. Class Narrative: (2 mins)
  - Brief the student/s that Daisy is on a tour around the globe and wants to capture pictures.
     Hence she plans to create a SnapBuzz app to share the pictures among the travel community.
- 2. Concept Introduction Activity: (5 mins)
  - Let the student/s play the explore-activity and explore the SnapBuzz app.

- Ask students to sign up and check multiple screens. Ask student/s to click on the like and comment button on the feed screen to check the notification message in Logs.
- Explain the project structure for multi screen app and its benefit.
- Using the slides, explain that the student/s will learn:
  - o to add the feed
  - o to scroll the feed
  - to add like and comment icons

#### 3. Activity 1: Add Feed Data: (12 mins)

#### **Teacher Activity**: (6 mins)

- Let the students observe the different elements on the feed screen..
- Explain to the student/s how to add feed and display profile image and username for the feed.

#### **Student Activity:** (6 mins)

 Guide the student/s to add feed data for 3rd feed and display image and caption for all the feeds.

#### 4. Activity 2: Scroll the Feed Screen: (12 mins)

#### **Teacher Activity**: (6 mins)

- Explain to the student/s that the feed is not scrollable for an app but automatically scrollable for web on expo.
- Explain the use of the FlatList rendering component to scroll smoothly.

#### **Student Activity:** (6 mins)

• Guide the student/s to render the <FlatList> component on the feed screen.

Probing question: Why is the FlatList component better than Scrollview?

Expected answer: FlatList renders items when they are about to appear, and removes items that scroll way off screen to save memory and processing time.

#### 5. Activity 3: Add Like and Comment Icons: (8 mins)

#### **Teacher Activity**: (6 mins)

- Explain how to find icons from react native elements and add them in an app.
- Add a like icon and flag a notification when it is clicked.

#### Student Activity: (8 mins)

 Guide the student/s to add a comment icon and flag a notification in the Logs when it is clicked.

#### 6. Introduce the Post class project: (2 min)

Add the feed data for Bid & Buy app.

#### 7. Test and Summarize the class learnings: (5 mins)

- Check for understanding through guizzes and summarize learning after respective missions.
- Summarize the overall class learning towards the end of the class.

#### 8. Additional activities:

- Encourage the student/s to add a comment section and add comments for the feed. Also add styles for it in a StyleSheet.
- Encourage the student/s to create a Flatlist and display the comments data from the feed.

- 9. State the Next Class Objective: (1 min)
  - We will learn to add a camera to the Snap Buzz App.

# **U.S. Standards:**

CSTA: 2-AP-11, 2-AP-12, 2-AP-13, 2-AP-14, 2-AP-16, 2-AP-19

Links Table		
Activity	Activity Name	Link
Class Presentation	Create a Feed screen	https://s3-whjr-curriculum-uploads. whjr.online/43b2e026-cd96-4d9e-9 1ac-191e22100152.html
Explore Activity	SnapBuzz App	https://snack.expo.dev/@procodin gclass/wad-40256-ica-snapbuzz -feedsolution
Teacher Activity 1	Add Feed Data	https://snack.expo.dev/@procoding class/wad-40252-ta1-add-feed-da ta
Teacher Activity 1 Solution	Add Feed Data	https://snack.expo.dev/@procoding class/wad-40252-ta1-add-feed-da tasolution
Student Activity 1	Add Feed Data	https://snack.expo.dev/@procoding class/wad-40252-sa1-add-feed-d ata
Teacher Reference: Student Activity 1 Solution	Add Feed Data	https://snack.expo.dev/@procoding class/wad-40252-sa1-add-feed-d atasolution
Teacher Activity 2	Scroll the Feed Screen	https://snack.expo.dev/@procoding class/wad-40252-ta2-scroll-the-fe ed-screen
Teacher Activity 2 Solution	Scroll the Feed Screen	https://snack.expo.dev/@procoding class/wad-40252-ta2-scroll-the-fe ed-screensolution
Student Activity 2	Scroll the Feed Screen	https://snack.expo.dev/@procoding class/wad-40252-sa2-scroll-the-f eed-screen
Teacher Reference: Student Activity 2 Solution	Scroll the Feed Screen	https://snack.expo.dev/@procoding class/wad-40252-sa2-scroll-the-f eed-screensolution
Teacher Activity 3	Add a Like Icon	https://snack.expo.dev/@procoding class/wad-40252-ta3-add-like-ico n

Teacher Activity 3 Solution	Add a Like Icon	https://snack.expo.dev/@procoding class/wad-40252-ta3-add-like-ico nsolution
Student Activity 3	Add a Comment Icon	https://snack.expo.dev/@procoding class/wad-40252-sa3-add-comm ent-icon
Teacher Reference: Student Activity 3 Solution	Add a Comment Icon	https://snack.expo.dev/@procoding class/wad-40252-sa3-add-comm ent-iconsolution
Student's Additional Activity 1	Create a Comment Section	https://snack.expo.dev/@procoding class/wad-40252-aa1-create-com ment-section
Teacher Reference: Student's Additional Activity 1 Solution	Create a Comment Section	https://snack.expo.dev/@procoding class/wad-40252-aa1-create-com ment-sectionsolution
Student's Additional Activity 2	Display the Comments	https://snack.expo.dev/@procoding class/wad-40252-aa2-display-co mments-using-flatlist
Teacher Reference: Student's Additional Activity 2 Solution	Display the Comments	https://snack.expo.dev/@procoding class/wad-40252-aa2-display-co mments-using-flatlistsolution
Post Class Project	Add Feed Data	https://snack.expo.dev/@procoding class/wad-40252-pcp-add-feed-d ataboiler
Teacher Reference: Post Class Project Solution	Add Feed Data	https://snack.expo.dev/@procoding class/wad-40252-pcp-add-feed-d atasolution