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## Flutter APP Development

Section 1 – Dart Programming

- Operators, var, let, const, type Conversion
- Control Statements (If else, switch, break, default)
- Control Statements (loop's)
- Intro to Function & types of function
- User-define Function Local & global variables
- Anonymous functions, Arrow Function.
- List, Map, Set
- \*1. Write a program that takes two numbers as input and displays their sum using the addition operator.
- \*2. Write a program that swaps the values of two variable without using a temporary variable.
- \*3. Write a program that checks if a given number is even or odd using the modulus operator (%).
- \*4. Write a program that converts a string to a number and displays the result. For example, convert the string "42" to the number 42.
- \*5. Write a program that compares two strings and checks if they are equal using the equality (==) operator.
- \*6. Write a program that checks if a given number is positive, negative, or zero using an if-else statements.
- \*7. Write a program that prompts the user to enter a grade (A, B, C, D, or F) and displays a corresponding message using a switch statement.
- \*8. Write a program that finds the maximum of three numbers entered by the user using nested if-else statements.
- \*9. Write a program that prompts the user to enter a number and displays whether it is prime or not using a loop and if-else statements.
- \*10. Write a program that converts a given month number (1-12) into its corresponding name (January December) using a switch statement.
- \*11. Write a program that prints the numbers from 1 to 10 using a for loop.
- \*12. Create a program that calculates the sum of all numbers from 1 to a given number entered by the user using a while loop.
- \*13. Write a program that prompts that user to enter a password and keeps asking until the correct password is entered using a do-while loop.
- \*14. Create a program that prints the multiplication table of a given number entered by the user using a for loop.
- \*15. Write a program that finds the factorial of a given number using a for loop.
- \*16. Write a Dart function that takes two integers as parameters and returns their sum.
- \*17. Write a Dart function that checks if a number is even or odd and returns a corresponding message.
- \*18. Create a Dart function that calculates the factorial of a given number using recursion.
- \*19. Write a Dart function that checks if a given number is prime and returns a Boolean value.
- \*20. Create a Dart function that generates a Fibonacci sequence up to a given number and returns a list.
- \*21. Write a Dart program that demonstrates the usage of a global variable.
- \*22. Write a Dart function that calculates the perimeter of a rectangle using local variables.

- \*23. Write a Dart function that calculates the factorial of a given number using a local variable.
- \*24. Write a Dart function that checks if a given number is prime using a local variable.
- \*25. Write a Dart program that uses an anonymous function to calculate the square of a given number.
- \*26. Write a Dart program that uses an anonymous function to filter even numbers from a list.
- \*27. Write a Dart program that uses an anonymous function to convert a list of string to uppercase.
- \*28. Write a Dart program that uses an arrow function to check if number is positive.
- \*29. Write a Dart program that uses an arrow function to reverse a string.
- \*30. Write a Dart program that creates a list of integers and prints the sum of all the numbers in the list.
- \*31. Create a Dart program that adds elements to a list using the 'add' method and prints the updated list.
- \*32. Create a Dart program that updates a value in a map using the key and prints the updated map.
- \*33. Create a Dart program that sorts a list of integers in ascending order and prints the sorted list.
- \*34. Create a Dart program that performs a union operation on two sets and prints the resulting set.
- #1. Create a program that calculates the area of a rectangle given its length and width using multiplication.
- #2. Create a program that converts a temperature in Celsius to Fahrenheit using the formula: Fahrenheit = (Celsius\*9/5) + 32.
- #3. Create a program that calculates the average of three numbers using the division and addition operators.
- #4. Create a program that calculates the area of circle given its radius using the mathematical constant pi.
- #5. Create a program that calculates the factorial of a given number using a loop and the multiplication operator.
- #6. Create a program that determines whether a year entered by the user is a leap year or not using an if-else statement.
- #7. Create a program that simulates a simple calculator. Prompt the user to enter two numbers and an operator (+,-,\*, /), then perform the corresponding operation using a switch statement.
- #8. Create a program that checks if a given character is a vowel or a consonant using a switch statement.
- #9. Create a program that generates a random number between 1 and 10 and allows the user to guess it. Display a message indicating if the guess is correct or not using an if-else statement.
- #10. Create a program that simulates a simple quiz. Ask the user a multiple-choice question and validate the answer using if-else statements. Provide appropriate feedback based on the user's response.
- #11. Create a program that prints the Fibonacci sequence up to a given number entered by the user using a while loop.
- #12. Write a program that prompts the user to enter a series of numbers and finds the maximum among them using a for loop.
- #13. Create a program that checks if a given number is prime or not using a for loop.
- #14. Write a program that generates a random number between 1 and 100 and allows the user to guess it. Provide appropriate feedback and keep asking until the correct guess is made using a do-while loop.
- #15. Create a program that prints the ASCII values of all uppercase letters from A to Z using a for loop.
- #16. Create a Dart function that calculates the area of a rectangle given its length and width, and returns the result.
- #17. Write a Dart function that converts a temperature in Celsius to Fahrenheit and returns the result.
- #18. Create a Dart function that checks if a given string is a palindrome and returns a Boolean value.
- #19. Write a Dart function that calculates the sum of all numbers in a list and returns the result.
- #20. Create a Dart function that counts the number of vowels in a given string and returns the count.
- #21. Create a Dart program that shows the difference between local and global variable.
- #22. Create a Dart program that demonstrates the usage of a local variable inside a loop.
- #23. Create a Dart program that demonstrates the scope of local variable.
- #24. Create a Dart program that demonstrates the shadowing of local variables.
- #25. Create a Dart program that uses an anonymous function to find the sum of two numbers.
- #26. Create a Dart program that uses an anonymous function to find the maximum number in a list.

- #27. Create a Dart program that uses an arrow function to calculate the area of a rectangle.
- #28. Create a Dart program that uses an arrow function to calculate the sum of a list of a numbers.
- #29. Create a Dart program that uses an arrow function to calculate the square root of a number.
- #30. Create a Dart program that creates a map representing a person with keys "name", "age", and "city". Print the values of the map.
- #31. Write a Dart program that removes an element from a list using the **'remove'** method and prints the updated list.
- #32. Write a Dart program that checks if an element exists in a set using the 'contains' method and prints the result.
- #33. Write a Dart program that retrieves all keys from a map and prints them.
- #34. Write a Dart program that creates a set of strings and prints the number of unique elements in the set.

## Section 2 –

- Object Oriented Programming
- Object, Class, Methods, Access specifiers
- Constructor, named constructor, this, static
- Inheritance single, multilevel, hierarchical, Multiple
- Runtime Polymorphism, Method overriding, super keyword
- Abstraction, Abstract Class, Interface
- Packages
- Exception Handling
- Multithreading, Isolets, Async, Concurrency.
- \*1. Write a Dart program that creates a class called 'Person' with properties 'name' and 'age'. Implement a default constructor and a named constructor.
- \*2. Write a Dart program that demonstrates the usage of static variables and methods in a class.
- \*3. Write a Dart program that demonstrates the concept of constructor chaining using the **'this'** keyword.
- \*4. Write a Dart program that demonstrates the usage of default parameter values in a constructor.
- \*5. Write a Dart program that demonstrates the usage of the **'assert'** keyword in a constructor.
- \*6. Write a Dart program that demonstrates single inheritance by creating a base class 'Animal' and a derived class 'Cat'.
- \*7. Write a Dart program that demonstrates hierarchical inheritance by creating a base class 'Shape' and two derived classes 'Rectangle' and 'Circle'.
- \*8. Write a Dart program that demonstrates method overriding in inheritance.
- \*9. Write a Dart program that demonstrates the concept of abstract classes and methods in inheritance.
- \*10.Write a Dart program that demonstrates the usage of mixins inheritance.
- \*11.Write a Dart program that demonstrates method overriding and runtime ploymorphism
- \*12.Write a Dart program that demonstrates the concept of runtime polumorphism by having a list of animals and calling the **'makeSound()**' method for each animal.
- \*13. Write a Dart program that demonstrates method overriding and runtime polymorphism with a base class and its subclasses.
- \*14. Write a Dart program that demonstrates method overriding and runtime polymorphism with a base class and its subclasses implementing an interface.
- \*15. Write a Dart program that demonstrates method overriding and runtime polymorphism with a base class and its subclasses having different parameterized constructors.
- \*16. Write a Dart program that demonstrate abstraction and abstract classes.
- \*17. Write a Dart program that demonstrate the concept of abstraction and abstract classes with abstract methods.

- \*18. Write a Dart program that demonstrates abstraction and abstract classes with named constructors.
- \*19. Write a Dart program that demonstrates the usage of abstract classes and interfaces in a hierarchical structure.
- \*20. Write a Dart program that demonstrates abstraction and abstract classes with static members.
- \*21. Write a Dart program that uses the **'http'** package to make an HTTP GET request and fetch data from a remote server.
- \*22. Write a Dart program that uses the 'path' package to manipulate file and directory paths.
- \*23. Write a Dart program that uses the 'flutter\_launcher\_icons' package to generate app launcher icons for a flutter project.
- \*24. Write a Dart program that uses the 'flutter\_localizations' package to add internationalization support to a Flutter app.
- \*25. Write a Dart program that uses the **'connectivity'** package to check the internet connectivity status in a Flutter app.
- \*26. Write a Dart program that demonstrates the use of try-catch blocks to handle a specific exception.
- \*27. Write a Dart program that uses the **'on'** keyword to catch specific exceptions.
- \*28. Write a Dart program that uses the 'finally' block to perform cleanup operations.
- \*29. Write a Dart program that demonstrates the use of the 'finally' block with a return statement.
- \*30. Write a Dart program that demonstrates the use of stack traces to debug exceptions.
- \*31. Write a Dart program that uses the **'async'** and **'await'** keywords to perform an asynchronous operation.
- \*32. Write a Dart program that uses isolates to perform computationally intensive tasks in parallel.
- \*33. Write a Dart program that uses the 'Stream' class to handle a stream of data asynchronously.
- \*34. Write a Dart program that uses the **'await for'** loop to iterate over a stream of data asynchronously.
- \*35. Write a Dart program that uses the '**StreamTransformer**' class to perform and filter a stream of data.
- #1. Create a Dart program that uses the 'this' keyword to refer to the current instance of a class.
- #2. Create a Dart program that initialize an object using a static factory method.
- #3. Create a Dart program that uses a private constructor to restrict the instantiation of a class.
- #4. Create a Dart program that demonstrates the usage of constant constructors.
- #5. Create a Dart program that demonstrates the usage of the 'required' keyword in a constructor.
- #6. Create a Dart program that demonstrates multilevel inheritance by creating a base class 'Animal' an intermediate class 'Mammal' and a derived class 'Cat'.
- #7. Create a Dart program that demonstrates multiple inheritance using interfaces by creating two classes **'Flyer'** and **'Swimmer'** implementing the interface **'Animal'**.
- #8. Create a Dart program that demonstrates the usage of the **'super'** keyword to call the base class method.
- #9. Create a Dart program that demonstrates the usage of the **'is'** and **'as'** keywords for type checking and type casting in inheritance.
- #10. Create a Dart program that demonstrates the usage of abstract classes and multiple inheritance using interfaces.
- #11. Create a Dart program that demonstrates the usage of the **'super'** keyword to call the base class method.
- #12. Create a Dart program that demonstrates method overriding and runtime polymorphism with a parameterized method.
- #13. Create a Dart program that demonstrates the usage of the 'super' keyword with parameters in a method override.
- #14. Create a Dart program that demonstrates runtime polymorphism with a base class and its subclasses implementing multiple interfaces.
- #15. Create a Dart program that demonstrates the usage of the **'super'** keyword with named constructors in method overriding.

- #16. Create a Dart program that demonstrate abstraction and interfaces.
- #17. Create a Dart program that demonstrate abstraction and interfaces with multiple inheritance.
- #18. Create a Dart program that demonstrates abstraction and interfaces with default implementations.
- #19. Create a Dart program that demonstrates abstraction and interfaces with getters and setters.
- #20. Create a Dart program that demonstrates abstraction and interfaces with private members.
- #21. Create a Dart program that uses the **'int1'** package to format a date and time according to a specific locale.
- #22. Create a Dart program that uses the '**shared\_preferences**' package to persist data locally on the device.
- #23. Create a Dart program that uses the 'firebase\_core' package to initialize Firebase in a Flutter project.
- #24. Create a Dart program that uses the 'flutter\_svg' package to display SVG images in a Flutter app.
- #25. Create a Dart program that uses the '**sqflite**' package to perform SQLite database operation in a Flutter app.
- #26. Create a Dart program that uses try-catch-finally blocks to handle exceptions and ensure cleanup of resources.
- #27. Create a Dart program that demonstrates the use of the **'rethrow'** keyword to rethrow an exception.
- #28. Create a Dart program that demonstrates the use of custom exceptions.
- #29. Create a Dart program that uses the **'on'** keyword to catch multiple exceptions.
- #30. Create a Dart program that uses the 'assert' function to validate inputs and detect logical errors.
- #31. Create a Dart program that uses the **'Future'** class to handle a long-running computation asynchronously.
- #32. Create a Dart program that demonstrates the use of '**Future.wait**' to perform multiple asynchronous operations concurrently.
- #33. Create a Dart program that demonstrates the use of **'StreamController'** to create and control a stream of data.
- #34. Create a Dart program that demonstrates the use of **'Completer'** to handle a future result asynchronously.

## Section 3 – Flutter App Development – (Basic UI)

- Intro to Mobile UI & Mobile Programming(Backend)
- Flutter Architecture
- Intro to widgets(stateless & statefull)
- Intro to layouts,types(Widget supporting a single child,Widget supporting a multiple child)
- Material Widgets(TextField,ButtonBar,Checkbox) with properites(Height,Width,padding,etc...)
- Material Widgets (ListTile,FloatingActionButton,FlatButton,IconButton,etc..)
- Async,await
- Gestures (Touch based device)
- Animation, Menu, Gallery, Camera
- Navigaton & Routing
- state Management (Like login,SignUp,etc...)
- \*1. Create a Dart program that displays a simple mobile UI with buttons and text fields.
- \*2. Implement a Dart program that retrieves data from a remote server using HTTP requests and displays it in a mobile app.
- \*3. Create a Dart program that uses local storage to store and retrieve data persistently in a mobile app.
- \*4. Implement a Dart program that communicates with a RESTful API to fetch and display data in a

mobile app.

- \*5. Create a Dart program that implements a real-time chat functionality using WebSocket communication in a mobile app.
- \*6. Implement the BLOC (Business Logic Component) pattern in Flutter to manage the state of a simple counter app.
- \*7. Develop a Flutter app that uses the MVVM (Model-View-ViewModel) architecture to separate the business logic and presentation logic.
- \*8. Implement the Clean Architecture in a Flutter app by separating the app into layers and defining clear boundaries between the presentation layer, domain layer, and data layer.
- \*9. Develop a Flutter app that follow the Flutter Modular architecture and uses modules to organize the app into smaller, reusable components.
- \*10. Implement the MVP (Model-View-Presenter) architecture in a Flutter app, separating the logic of the app into distinct layers and improving testability.
- \*11. Create a Flutter app with a stateless widget that displays a static text message.
- \*12. Build a Flutter app with a stateful widget that displays a list of items fetched from an API.
- \*13. Create a Flutter app with a stateless widget that displays a random quote every time the screen is refreshed.
- \*14. Build a Flutter app with a stateful widget that fetches data from an API periodically and displays it on the screen.
- \*15. Create a Flutter app with a stateful widget that validates user input in a form and displays appropriate error message.
- \*16. Create a Flutter app with a **'Container'** widget that contains a single child widget and applies custom styling properties like color and padding.
- \*17. Build a Flutter app with a 'Column' widget that displays multiple child widgets vertically.
- \*18. Create a Flutter app with a **'ListView'** widget that displays a scrollable list of child widgets.
- \*19. Build a Flutter app with a **'Wrap'** widget that arranges multiple child widgets to the next line when there's not enough horizontal space.
- \*20. Create a Flutter app with a 'Card' widget that displays multiple child widgets within a
- \*21. Create a Flutter app with a **'TextField'** widget that allows the user to input text and displays the entered text on a button press.
- \*22. Build a Flutter app with a **'Checkbox'** widget that allows the user to toggle a value and displays the current state.
- \*23. Create a Flutter app with a 'ButtonBar' widget that has a specified height, width, and padding.
- \*24. Develop a Flutter app with a 'Scaffold' widget that displays an 'AppBar' and a simple body.
- \*25. Build a Flutter app with a **'TabBar'** and **'TabBarView'** widget that displays different content based on the selected tab.
- \*26. Create a Flutter app with a 'BottomNavigationBar' that includes badges on the icons.
- \*27. Create a Flutter app with a 'ListTile' widget that displays a title and subtitle.
- \*28. Build a Flutter app with a 'FlatButton' that changes its color when pressed.
- \*29. Create a Flutter app with a 'RaisedButton' that shows a snackbar when pressed.
- \*30. Create a Dart function that simulates an asynchronous task using 'async' and 'await'.
- \*31. Build a Dart function that reads a file asynchronously using 'async' and 'await'.
- \*32. Create a Dart function that performs an asynchronously operation with error handling using '**try**-**catch**' and '**async**'/'**await**',
- \*33. Implement a Dart function that executes a series of asynchronous tasks sequentially using 'async' and 'await'.
- \*34. Create a Dart function that performs an asynchronous task with a timeout using 'async' and 'await'.
- \*35. Create a Flutter app that detects a tap gesture on a specific widget and performs an action.
- \*36. Build a Flutter app that detects a swipe gesture in different directions and displays the direction in a text widget.
- \*37. Create a Flutter app that detects a pinch gesture and scales an image widget.

- \*38. Build a Flutter app that defects a scale gesture and zooms in/out an image.
- \*39. Create a Flutter app that detects a force press gesture and displays the pressure level.
- \*40. Create a Flutter app with a bouncing animation effect.
- \*41. Create a Flutter app that displays a gallery of images.
- \*42. Implement a Flutter app with an animated menu.
- \*43. Develop a Flutter app with a circular menu.
- \*44. Create a Flutter app with a gallery using a PageView.
- \*45. Create a Flutter app with two screens and navigate between them.
- \*46. Create a Flutter app with a bottom navigation bar.
- \*47. Create a Flutter app with a drawer menu.
- \*48. Develop a Flutter app with a bottom navigation bar and different screens for each tab.
- \*49. Implement a Flutter app with a named route and passing arguments.
- \*50. Implement a simple login form with state management.
- \*51. Implement a signup form using BLoC pattern for state management.
- \*52. Implement a theme toggle using Riverpod for state management.
- \*53. Implement a timer app using Provider for state management.
- \*54. Implement a user profile screen using BLoC pattern for state management.
- #1. Develop a Dart program that retrieves data from a remote server using HTTP requests and displays it in a mobile app.
- #2. Build a Dart program that uses geolocation services to fetch the current location of a user's mobile device.
- #3. Develop a Dart program that integrates with the device's camera to capture photos and display them in a mobile app.
- #4. Build a Dart program that utilize Firebase Cloud Messaging to send push notifications to a mobile device.
- #5. Develop a Dart program that utilizes the device's accelerometer to detect motion and perform actions in a mobile app.
- #6. Create a Flutter app that follows the Provider pattern to manage global state and demonstrate how to access and update the state from different widgets.
- #7. Build a Flutter app that implements the redux architecture for state management and demonstrates how to dispatch actions and handle state changes.
- #8. Create a flutter app that uses the Repository pattern to handle data access and provides an abstraction layer between the data sources and the rest of the app.
- #9. Build a Flutter app that uses the Provider and Riverpod libraries to implement dependency injection and manage dependencies between different parts of the app.
- #10. Create a flutter app that uses the Flutter Hooks package to implement a functional programming style and manage state in a more concise and declarative way.
- #11. Develop a Flutter app with a stateful widget that increments a counter when a button is pressed.
- #12. Implement a Flutter app with a stateful widget that toggles the visibility of a widget when a button is pressed.
- #13. Develop a Flutter app with a stateful widget that fetches data from an API periodically and displays it on the screen.
- #14. Implement a Flutter app with a stateful widget that loads and displays images from the internet.
- #15. Develop a Flutter app with a stateful widget that uses a timer to update the UI periodically.
- #16. Develop a Flutter app with a 'Row' widget that displays multiple child widgets horizontally.
- #17. Implement a Flutter app with a '**Stack'** widget that overlays multiple child widgets on top of each other.
- #18. Develop a Flutter app with a 'GridView' widget that arranges multiple child widgets in a grid layout.
- #19. Implement a Flutter app with an **'Expanded'** widget that distributes available space evenly among multiple child widgets.

- #20. Develop a Flutter app with a **'Table'** widget that arranges multiple child widgets in a tabular layout with rows and columns.
- #21. Develop a Flutter app with a **'ButtonBar'** widget that displays a row of buttons with custom padding and alignment.
- #22. Implement a Flutter app with a 'TextField' widget that has a specified height, width, and padding.
- #23. Develop a Flutter app with a 'Checkbox' widget that has a specified height, width, and padding.
- #24. Develop a Flutter app with a 'BottomNavigateBar' widget that switches between different screens.
- #25. Implement a Flutter app with a 'Scaffold' widget that includes a 'FloatingActionButton'.
- #26. Develop a Flutter app with a 'TopBar' and 'TabBarView' that includes custom colors and styling.
- #27. Develop a Flutter app with a 'FloatingActionButton' that performs an action when pressed.
- #28. Implement a Flutter app with an 'IconButton' that shows a dialog when pressed.
- #29. Develop a Flutter app with a 'Card' widget that displays an image and some text.
- #30. Develop a Dart program that fetches data from an API using 'async' and 'await'.
- #31. Implement a Dart program that performs multiple asynchronous tasks concurrently using **'async'** and **'await'**.
- #32. Develop a Dart program that performs a time-consuming calculation asynchronously using 'async' and 'await'.
- #33. Develop a Dart program that fetches data from multiple APIs concurrently using 'async' and 'await'.
- #34. Implements a Dart program that performs an asynchronous operation with progress updates using **'Stream'** and **'async'/'await'**.
- #35. Develop a Flutter app that detects a long press gesture and displays a dialog.
- #36. Implement a Flutter app that detects a double tap gesture and changes the color of a widget.
- #37. Develop a Flutter app that detects a vertical drag gesture and scrolls list.
- #38. Implement a Flutter app that defects a long press move gesture and drags an object on the screen.
- #39. Develop a Flutter app that detects a rotate gesture and rotates an image.
- #40. Implement a Flutter app with a dropdown menu.
- #41. Develop a Flutter app that accesses the camera and captures an image.
- #42. Create a Flutter app with a sliding menu.
- #43. Implement a Flutter app with a tab bar.
- #44. Develop a Flutter app with a camera preview.
- #45. Implement a Flutter app with named routes and passing data between screens.
- #46. Develop a Flutter app with a tab-based navigation.
- #47. Implement a Flutter app with a login screen and navigate to the home screen on successful login.
- #48. Create a Flutter app with a bottom navigation bar and persistent state between screens.
- #49. Create a Flutter app with a drawer menu and navigate to different screens.
- #50. Implement a counter app using Provider for state management.
- #51. Implement a shopping cart using MobX for state management.
- #52.Implement a todo list using GetX for state management.
- #53. Implement a weather app using Riverpod for state management.
- #54. Implement a favorites list using MobX for state management.

## Section 4 – Flutter App Development – Advanced

- Create SQlite Based Project
- API Using Postman (GET,POST,PUT,DELETE,etc..)
- Rest API Use in Application
- OTP Verification
- Login with Gmail
- Firebase Remote Notification
- Payment Integration

- \*1. Create a Flutter application that stores and retrieves user information (name, email, age) in a SQLite database.
- \*2. Use the 'http' package in Dart to make a GET request to a public API (e.g., weather API) and display the response data in your application.
- \*3. Build a Flutter app that consumes a Restful API to fetch and display a list of products.
- \*4. Create a Dart program that generates a random OTP and sends it to a user's phone number or email using an external service (e.g., Twilio, SendGrid).
- \*5. Integrate the Google Sign-In API in your Flutter app to allow users to log in using their Gmail accounts.
- \*6. Set up Firebase Cloud Messaging (FCM) in your Flutter app to send remote push notifications to the device.
- \*7. Integrate a payment gateway SDK (such as Stripe or PayPal) into your Dart application to enable online payment processing.
- \*8. Implement JWT (JSON Web Tokens) authentication in your Dart app to secure your Restful API endpoints.
- \*9. Create a Flutter app with a login/register screen using Firebase Authentication.
- \*10. Use Firebase Real-time Database in your Dart app to synchronize data across multiple devices in real time.
- #1. Implement CRUD (Create, Read, Update, and Delete) operations on the user data using SQLite.
- #2. Implement a POST request to send data to a server (e.g., user registration) using the 'http' package.
- #3. Implement pagination functionality in your app by making subsequent requests to retrieve additional data from the API.
- #4. Implement OTP verification by comparing the entered OTP with the generated OTP in your Dart application.
- #5. Retrieve the user's basic profile information (name, email, profile picture) after successful authentication.
- #6. Implement handling of incoming push notifications and display them as system notifications or within the app.
- #7. Implement a checkout flow where users can enter payment details and complete a purchase using the integrated payment gateway.
- #8. Validate and decode JWT tokens received from the client to authenticate and authorize requests.
- #9. Implement different user roles (e.g. admin, regular user) and restrict access to certain features based on the user's role.
- #10. Implement real-time chat functionality where messages sent from one device are instantly visible on other devices.