

## **ALGORITHM : CAMERA RENTAL APPLICATION**

1. Define the `Camera` class with private instance variables for cameraId, brand, model, perDayPrice, and isAvailable. Include a constructor, getters, setters, and toString method.
2. Define the `User` class with private instance variables for username, password, and walletBalance. Include a constructor, getters, setters, and toString method.
3. Define the `CameraRentalApplication` class as the main class.
4. Initialize the `users` map and `cameras` list as static variables.
5. Implement the `initializeUsers` method to add user objects to the `users` map.
6. Implement the `initializeCameras` method to add camera objects to the `cameras` list.
7. Implement the `displayLoginPage` method to display the login page menu options.
8. Implement the `login` method to prompt the user to enter their username and password, validate the credentials, and log in the user if they are valid.
9. Implement the `showMainMenu` method to display the main menu options and handle user input.
10. Implement the `handleMyCameraMenu` method to display the My Camera menu options and handle user input.
11. Implement the `addCamera` method to prompt the user to enter camera details, create a new camera object, and add it to the `cameras` list.
12. Implement the `removeCamera` method to display the list of cameras, prompt the user to enter the camera ID to remove, and remove the camera from the `cameras` list if found.
13. Implement the `viewMyCameras` method to display the cameras rented by the current user.

14. Implement the ``handleRentCameraMenu`` method to display the Rent a Camera menu options, prompt the user to enter the camera ID to rent, and process the rental transaction.

15. Implement the ``displayAllCameras`` method to display the list of all cameras.

16. Implement the ``displayCameraList`` method to format and print the camera details in a tabular format.

17. Implement the ``handleWalletMenu`` method to display the Wallet menu options, show the current wallet balance of the user, and allow adding funds to the wallet.

18. Implement the ``main`` method to initialize users and cameras, display the login page, and handle user input until the user chooses to quit.