

“Grab A Flight” is a website for booking flights where users can search for flights. But in order to search flights users are required to fill up some parameters like entering source and destination airports, entering the departure date which will be verified and if the departure date is incorrect then an error will be shown. Users have the option of inserting the return date but it is not mandatory to fill it up for performing the search. But they have to select the category of the flight whether it will be of economy or business class and number of travelers. After filling up mentioned information they can perform the search. After the search users can book a flight by seeing the flights from search results. If users prefer they can see additional details of flights and modify their searches. To confirm the booking, the web server ensures that registered users need to be logged in using proper credentials. If any of the credentials during the login procedure are not valid then the server generates an error regarding invalid credentials. After confirming booking, registered users need to complete the payment. Payment procedure is being controlled by payment gateway and users can complete the payment by using cards or bKash. Newly registered users can avail a discount during their first flight booking. For availing the discount they need to enter a promo code and if the code is valid only then it can be availed otherwise error for providing invalid code will be generated. After the completion of the payment, confirmation notification of the booking gets generated and the server sends it to the users. Users who are not registered to the system can complete the registration procedure by providing their valid passport and contact details. The web server verifies these details and generates a promo code for a newly registered user for enjoying the discount on first booking. Otherwise, errors get generated for invalid passport and contact information.

Draw a use case diagram based on the above scenario.

