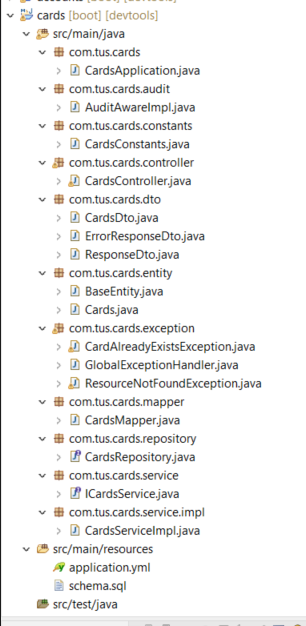
**Lab# Cards MicroService**

----------------------------------------------------------------------------------------------------------------

In this lab we will create a cards microservice, similar to the loans service.

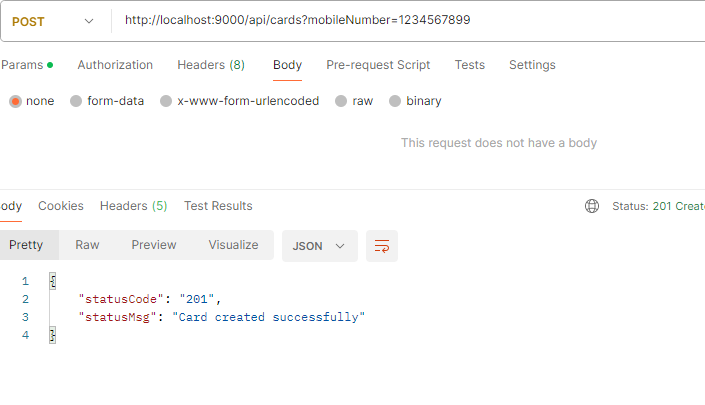


**Figure 1: Project Layout**

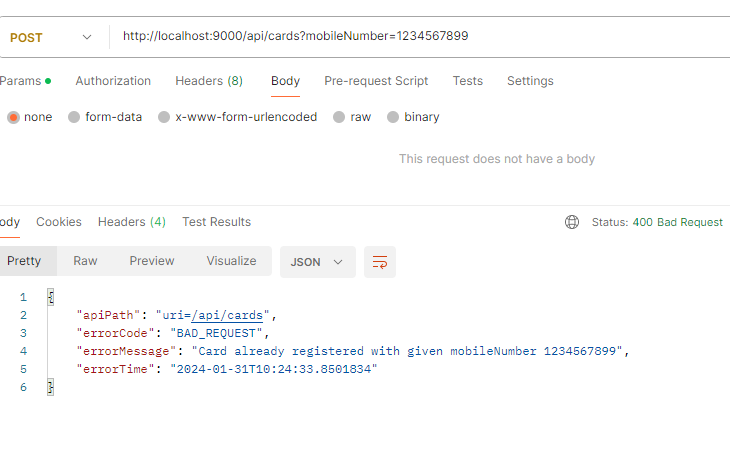
Schema.sql, CardsConstants, ICardsService and CardsServiceImpl and CardsMapper files are given. Use port 9000 in the .yml file.

**Creating a Card**

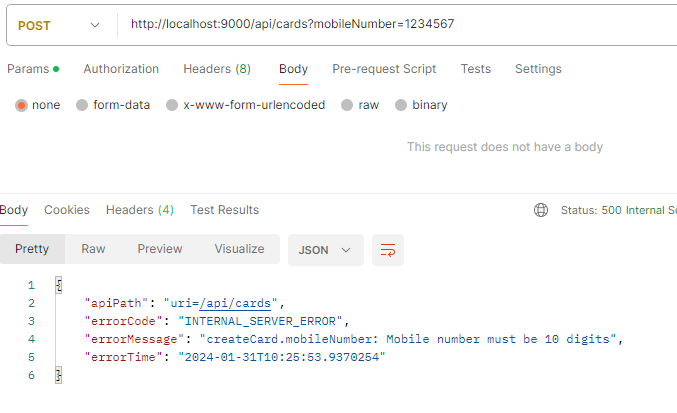
Now a mobile number create a card. The mobile number supplied must be 10 digits long. A card cannot already exist for the customer with given mobile number.



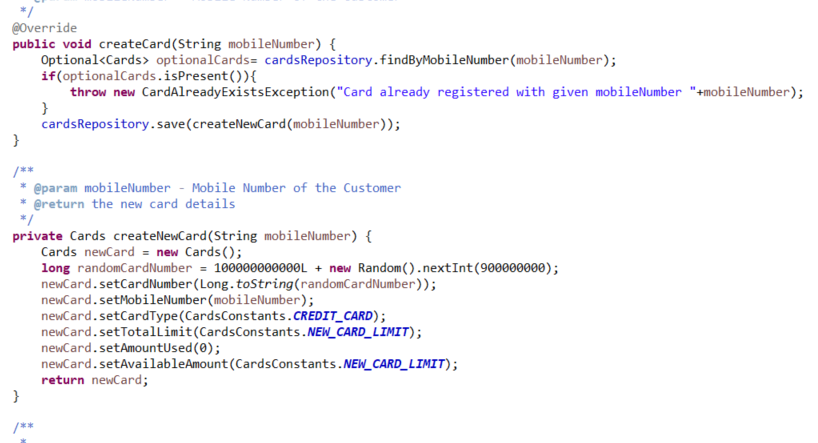
**Fig. 2 Create a card - Success**



**Fig. 3 Create a card - Card already exists for mobile no.**



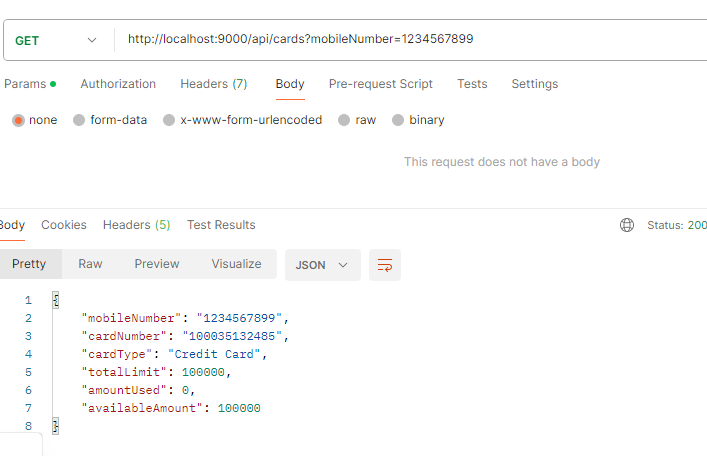
**Fig. 4 Create a card- mobile number too short.**



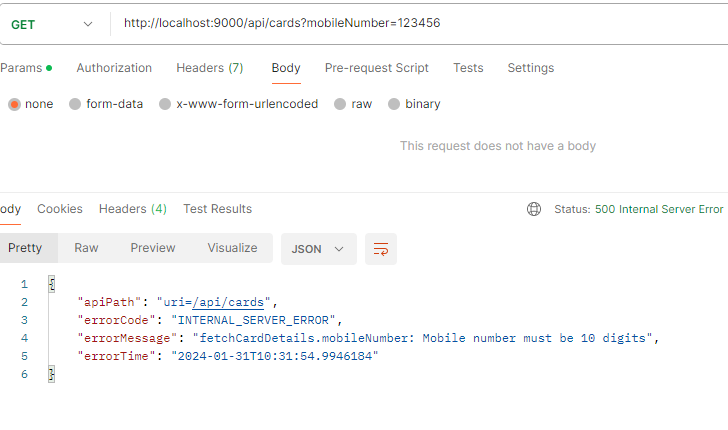
**Fig. 5 Creating a card – code in CardsServiceImpl**

The card is created using default values as shown and the number is generated as shown

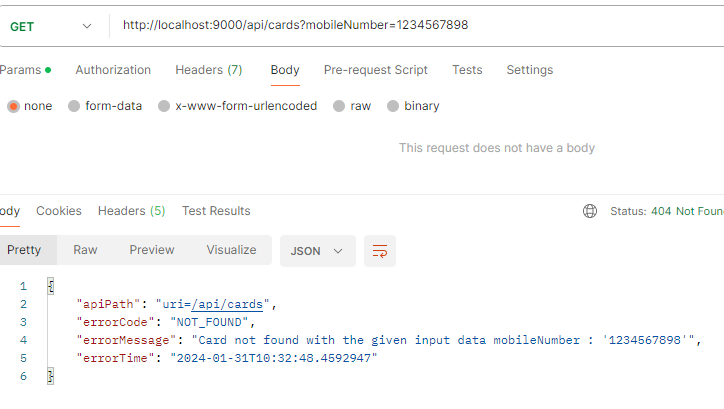
**Fetch card details**



**Fig. 6 Fetching card details - success**

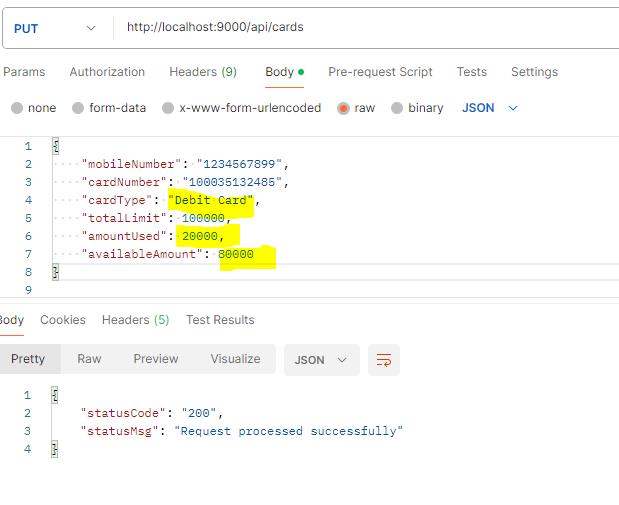


**Fig. 7 Fetching card details - mobile number not 10 digits**

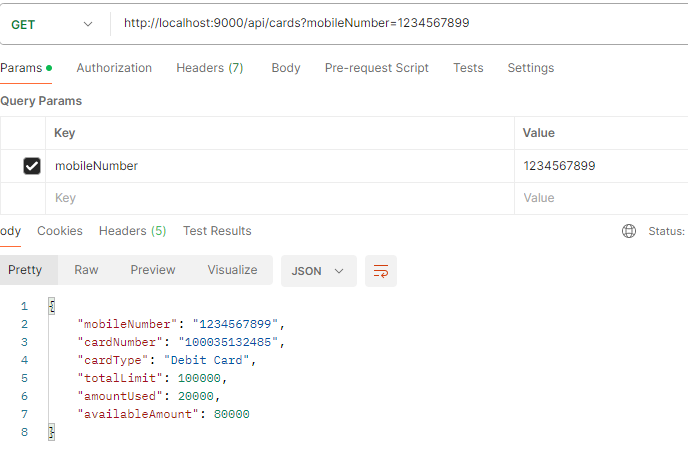


**Fig. 8 Fetching card – no card for given mobile number**

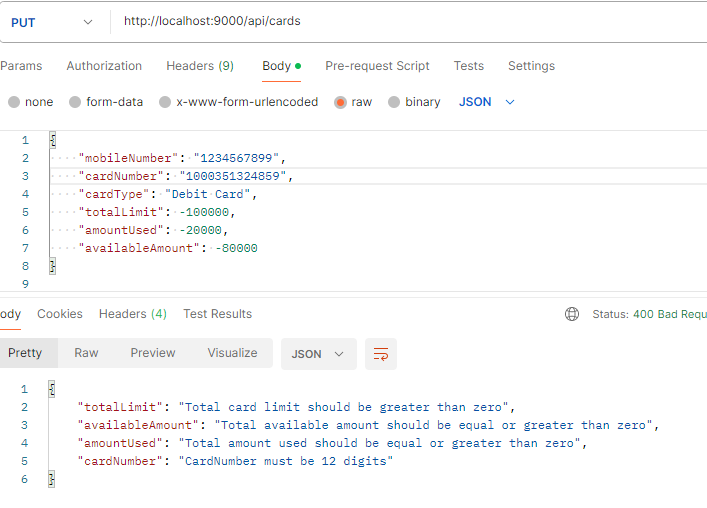
**Update Card details**



**Fig. 9 Updating card –card details updated successfully**

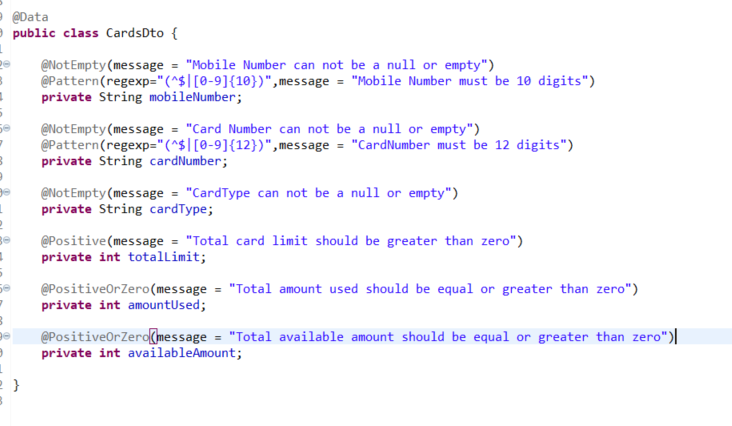


**Fig. 10 Fetch updated values –card details updated**

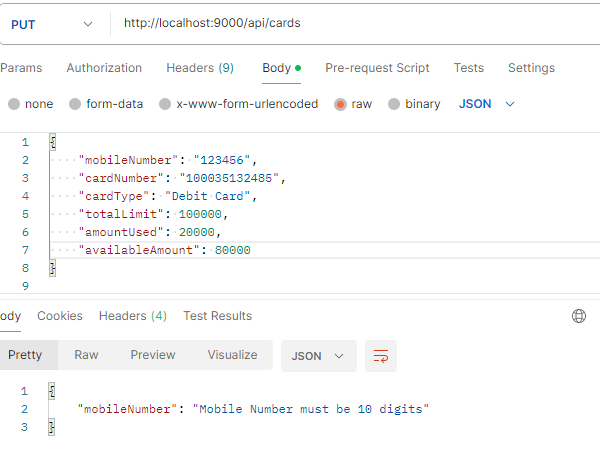


**Fig. 11 Updating loan –validation errors in data**

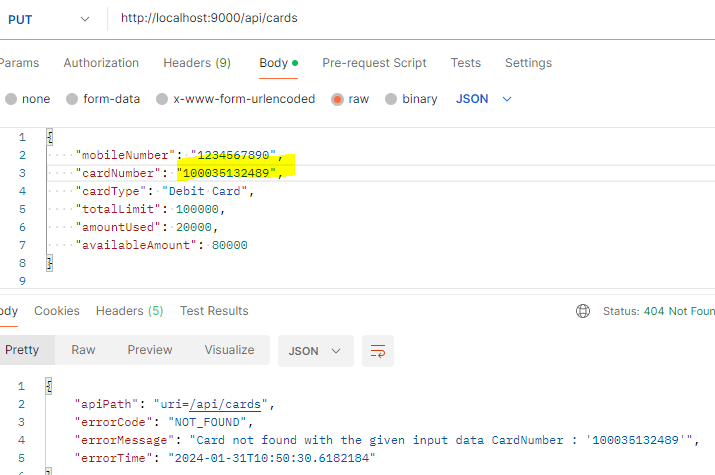
See CardsDto for error example



**Fig. 12 Handling errors in CardsDto**

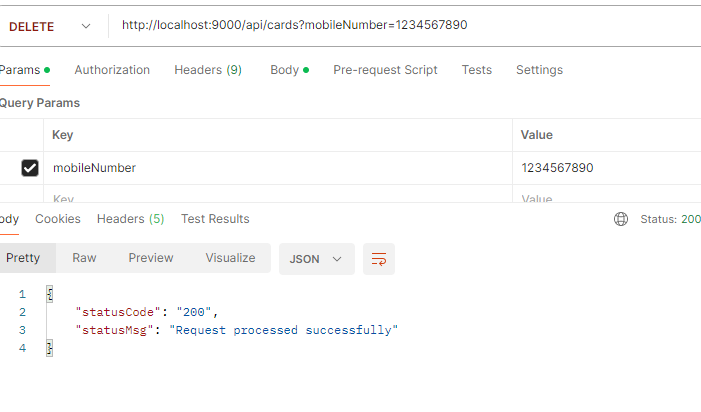


**Fig. 13 Update card - Mobile number not 10 digits**

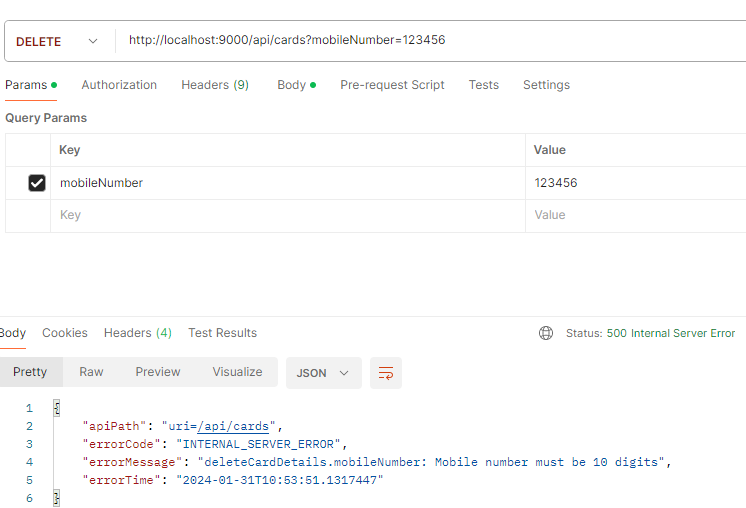


**Fig. 13 Update card – Card number not found**

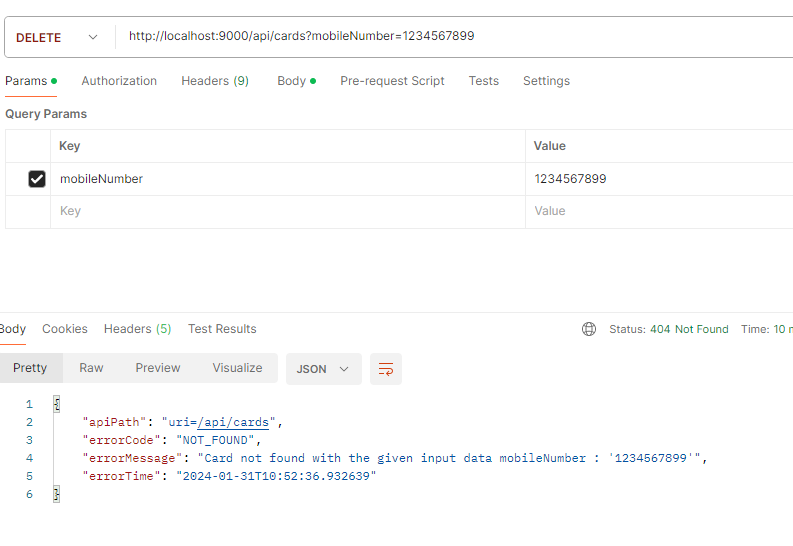
**DELETE Mapping**



**Fig. 15 Deleting a card**



**Fig. 16 Deleting a loan – mobile number too short**



**Fig. 17 Deleting a card – card with mobile number not found**