


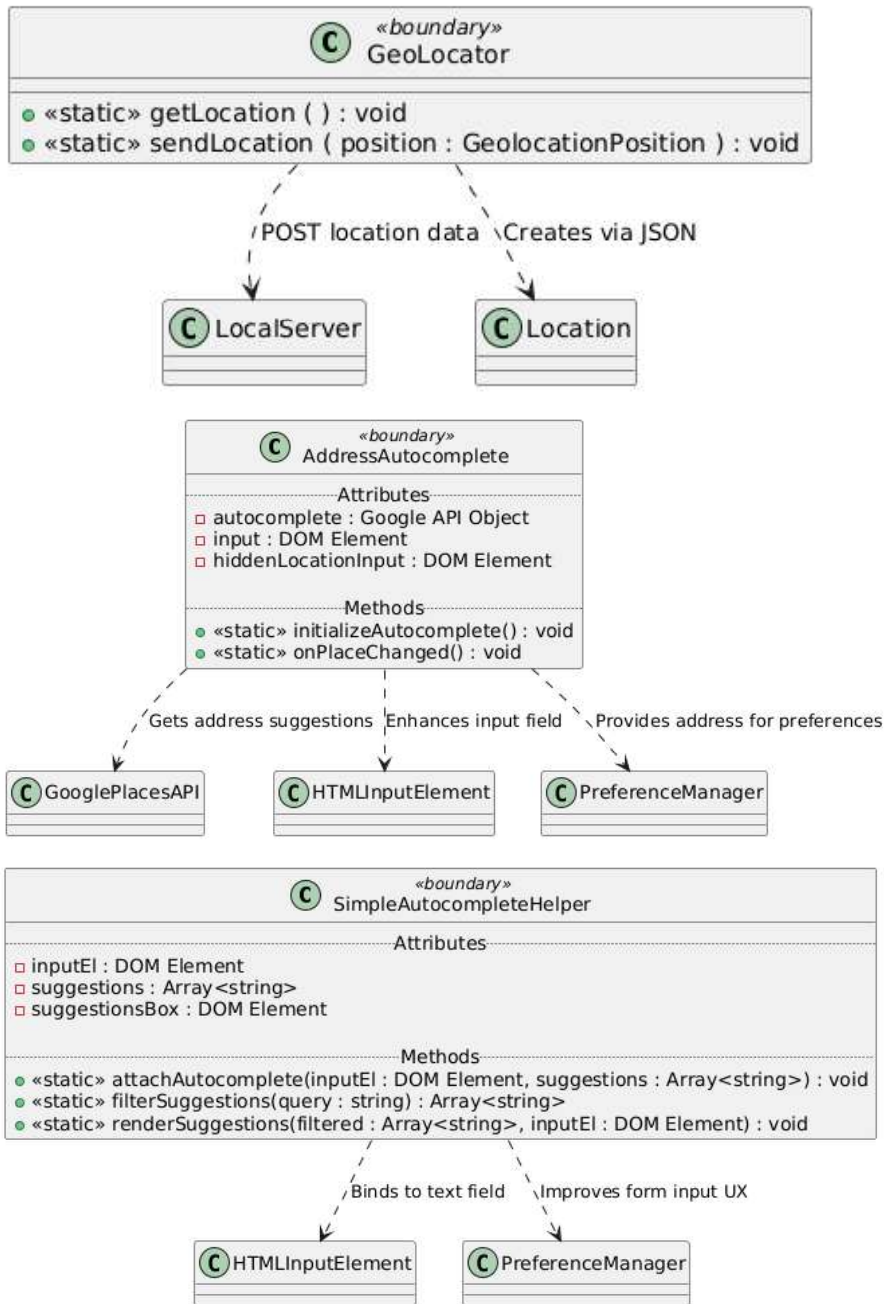


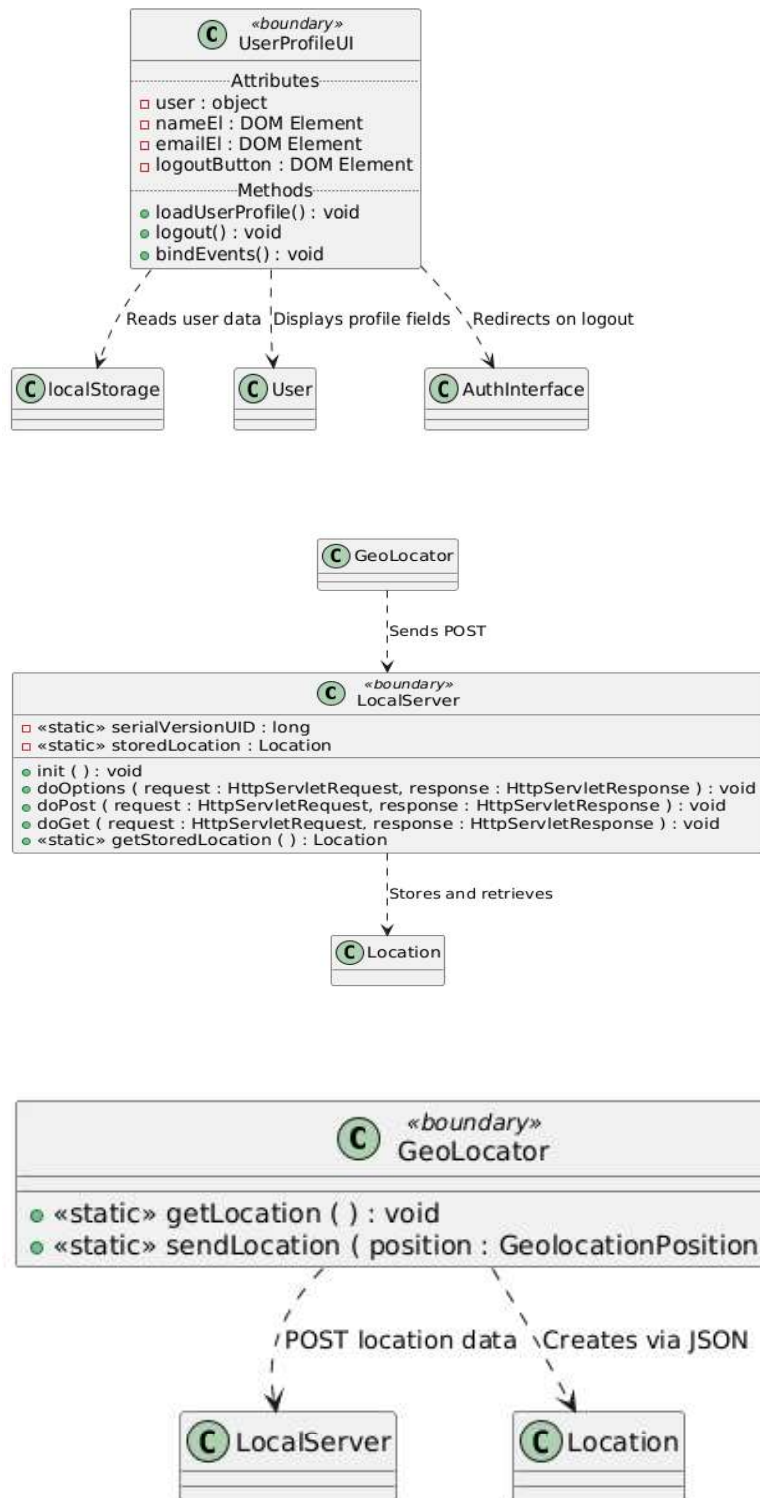
<div>  <div>«entity» Location</div> </div>
<div> <div>□ latitude : double</div> <div>□ longitude : double</div> </div>
<div> <div>● Location ( )</div> <div>● Location ( latitude : double, longitude : double )</div> <div>● getLatitude ( ) : double</div> <div>● getLongitude ( ) : double</div> <div>■ setLatitude ( latitude : double ) : void</div> <div>■ setLongitude ( longitude : double ) : void</div> </div>

<div>  <div>«entity» User</div> </div>
<div> <div>□ id : int</div> <div>□ firstName : String</div> <div>□ lastName : String</div> <div>□ email : String</div> <div>□ password : String</div> <div>□ tripID : int</div> <div>□ favourites : ArrayList&lt;String&gt;</div> <div>□ searchHistory : String[]</div> <div>□ preferences : Map&lt;String, Object&gt;</div> </div>
<div> <div>● User ( id : int, firstName : String, lastName : String, email : String, password : String, radius : float, searchHistory : String[], tripID : int )</div> <div>● User ( id : int, firstName : String, lastName : String, email : String, password : String, tripID : int )</div> <div>● getId ( ) : int</div> <div>● getTripID ( ) : int</div> <div>● getEmail ( ) : String</div> <div>● getPassword ( ) : String</div> <div>● getFirstName ( ) : String</div> <div>● getLastName ( ) : String</div> <div>● getFavourites ( ) : List&lt;String&gt;</div> <div>● getPreferences ( ) : Map&lt;String, Object&gt;</div> <div>● setId ( id : int ) : void</div> <div>● setTripID ( tripID : int ) : void</div> <div>● setEmail ( email : String ) : void</div> <div>● setPassword ( password : String ) : void</div> <div>● setFirstName ( firstName : String ) : void</div> <div>● setLastName ( lastName : String ) : void</div> <div>● removeFavourites ( restaurant : String, favourites : ArrayList&lt;String&gt; ) : void</div> <div>● addToFavourites ( restaurant : String, favourites : ArrayList&lt;String&gt; ) : void</div> <div>● updateSearchHistory ( history : String[] ) : String[]</div> <div>● addToSearchHistory ( restaurant : String, history : String[] ) : void</div> <div>● viewSearchHistory ( ) : String[]</div> <div>● clearSearchHistory ( ) : String[]</div> <div>● updatePreferences ( priceRange : String, radius : String, cuisine : List&lt;String&gt; ) : void</div> </div>

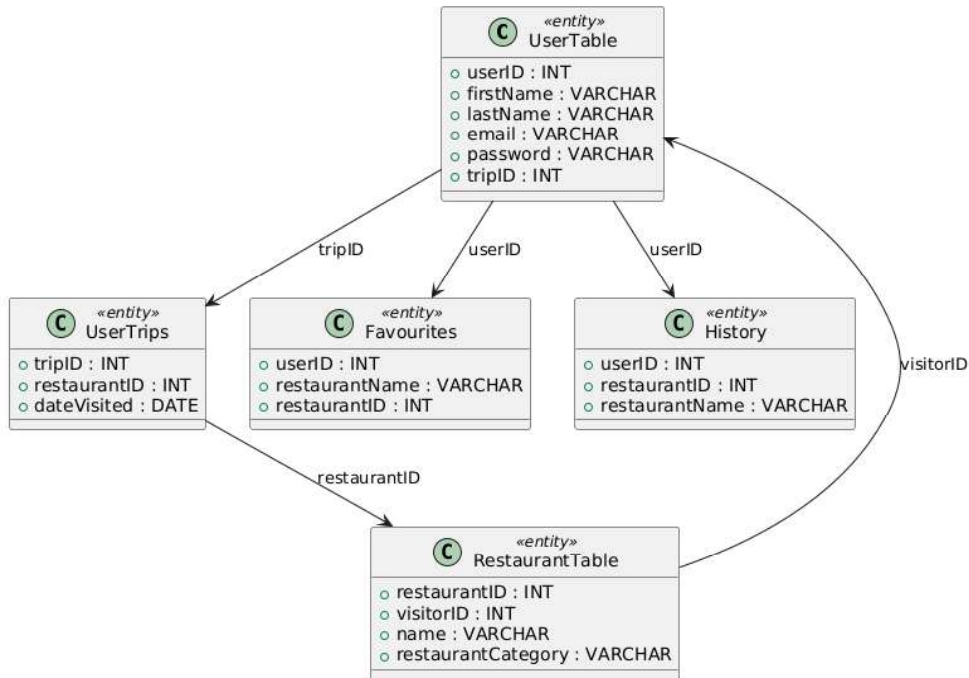
<div>  <div>«entity» Restaurant</div> </div>
<div> <div>□ id : int</div> <div>□ name : String</div> <div>□ typesOfFood : ArrayList&lt;String&gt;</div> </div>
<div> <div>● Restaurant ( id : int, name : String, typesOfFoods : ArrayList&lt;String&gt; )</div> <div>● Restaurant ( id : int, name : String )</div> <div>● setName ( name : String ) : void</div> <div>● setId ( id : int ) : void</div> <div>● getName ( ) : String</div> <div>● getId ( ) : int</div> <div>● getTypesOfFoods ( ) : ArrayList&lt;String&gt;</div> </div>

## Boundary and Control Class Diagram





Database Interaction Class Diagram

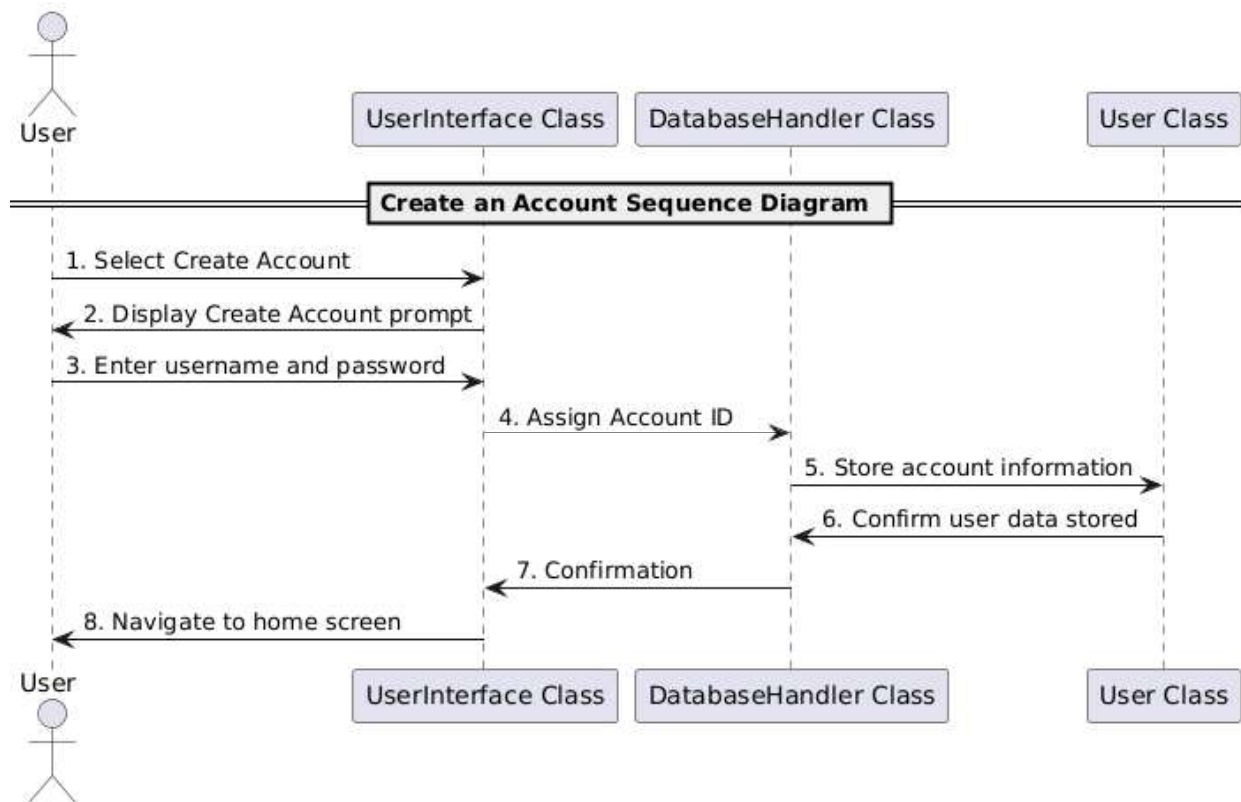
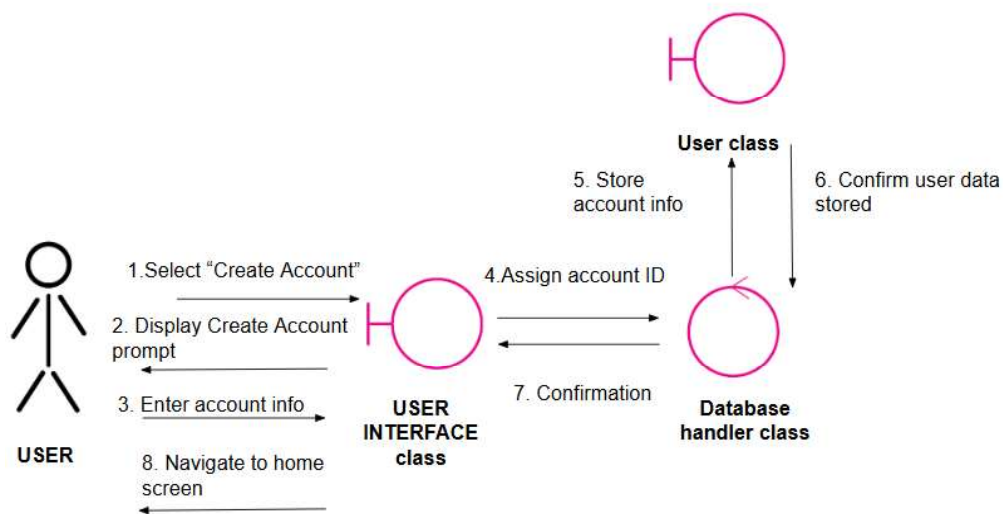


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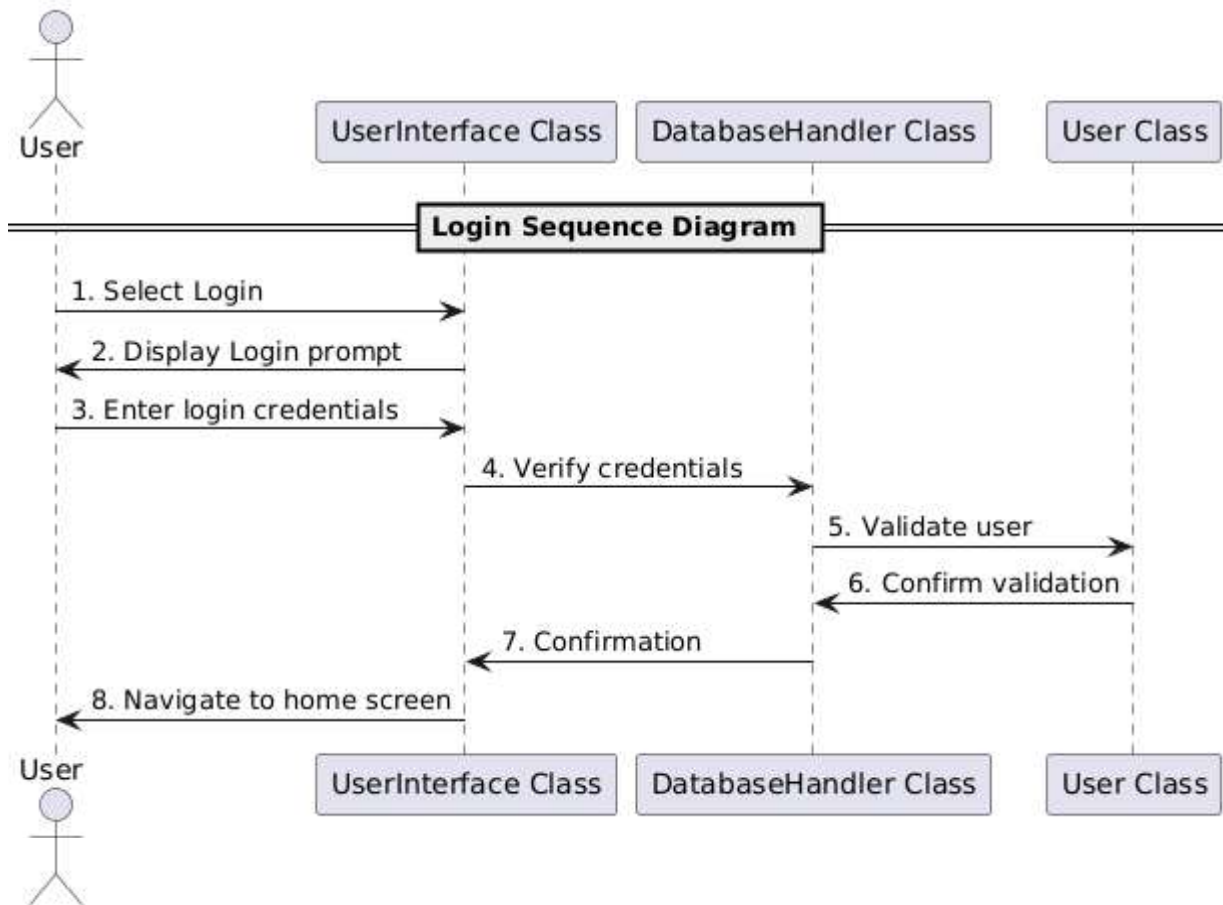
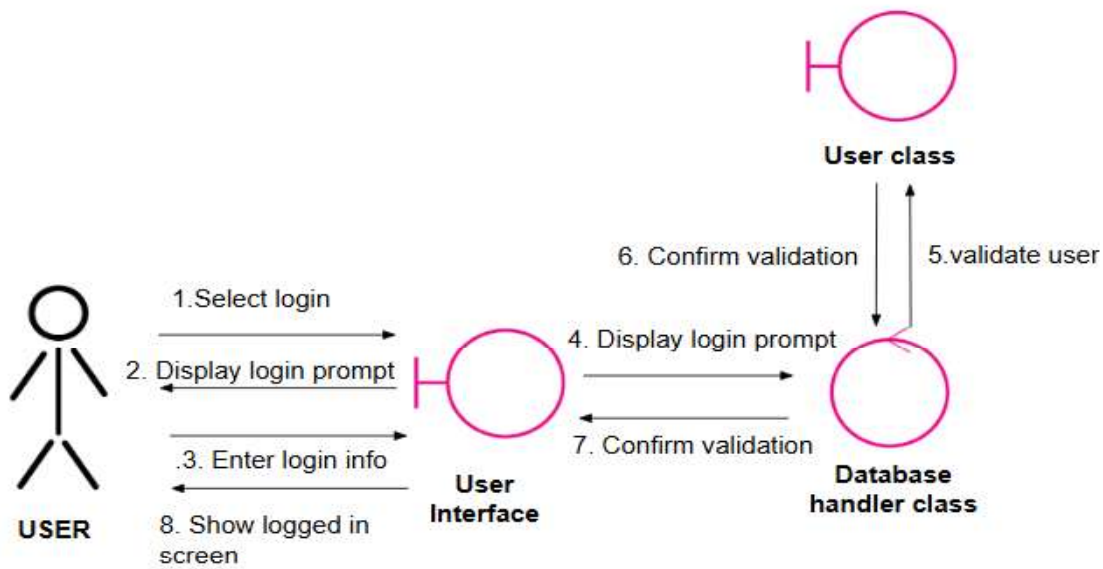
## 6. Interaction Modeling

### 6.1 Communication and Sequence Diagrams:

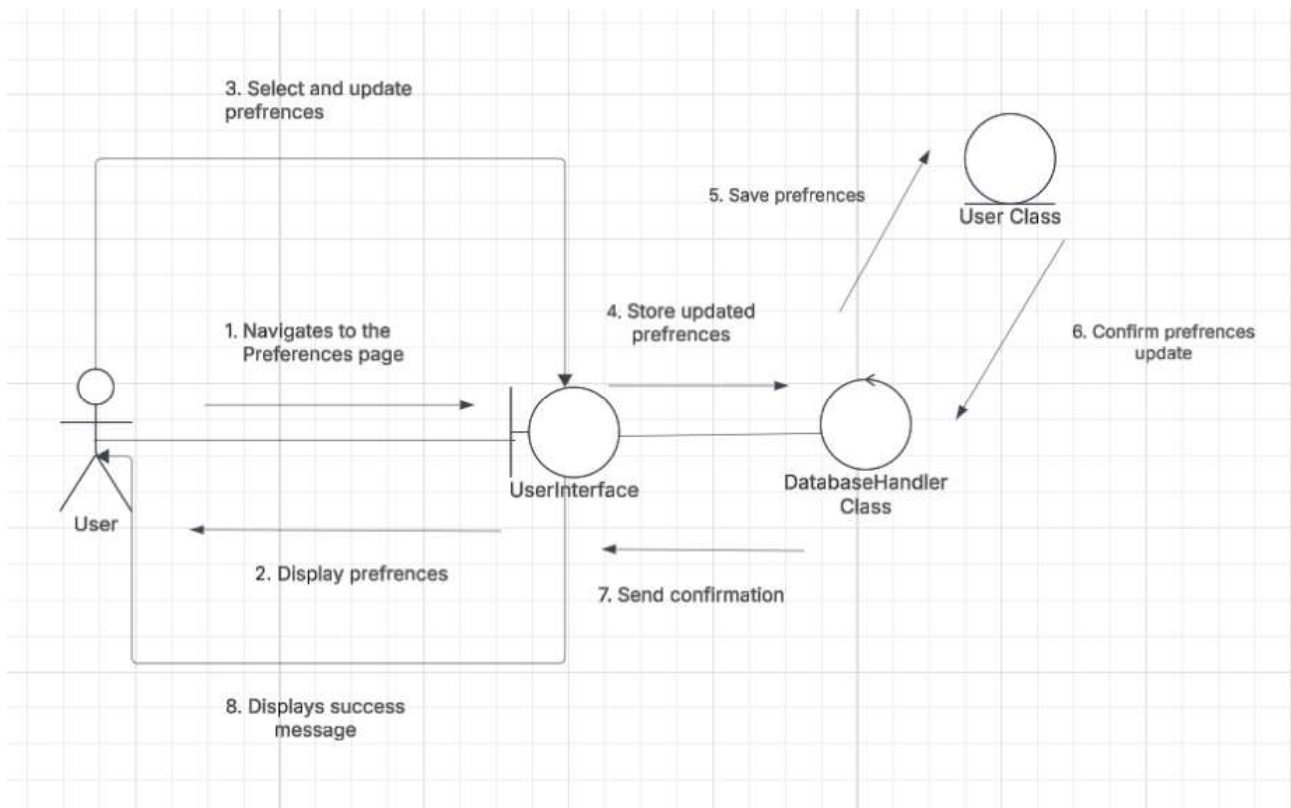
#### 2.0: Create an account



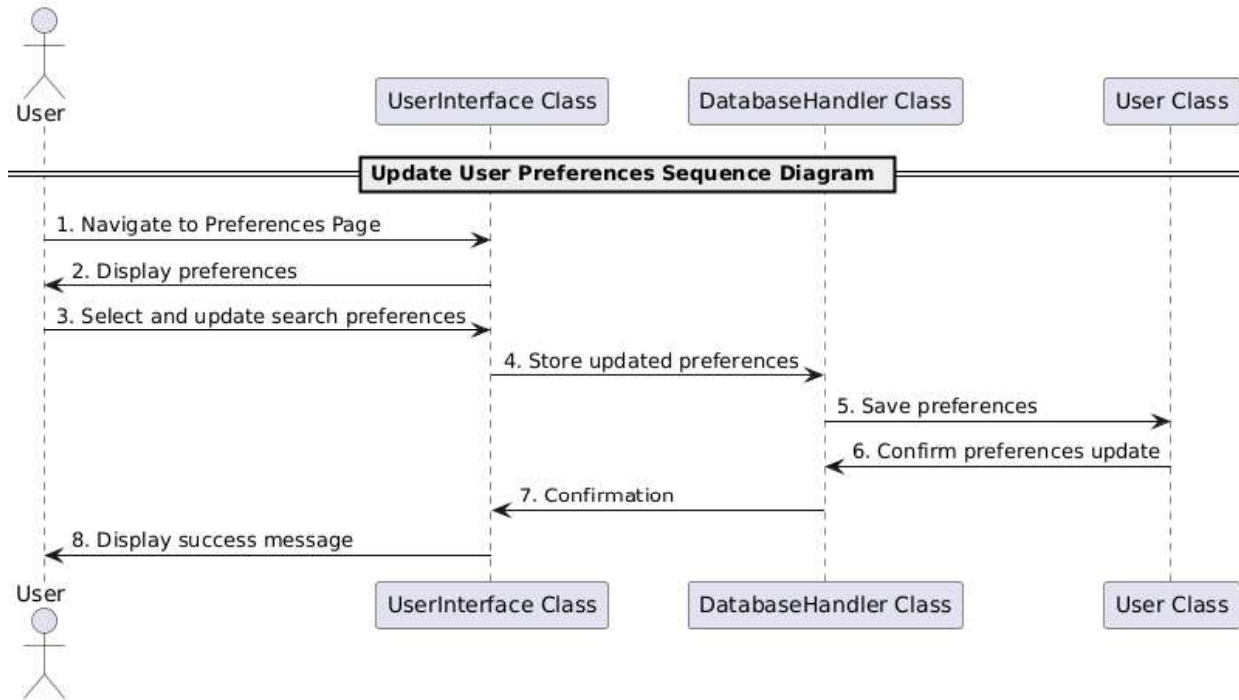
## 2.1:Login



## 2.2: Update user preference

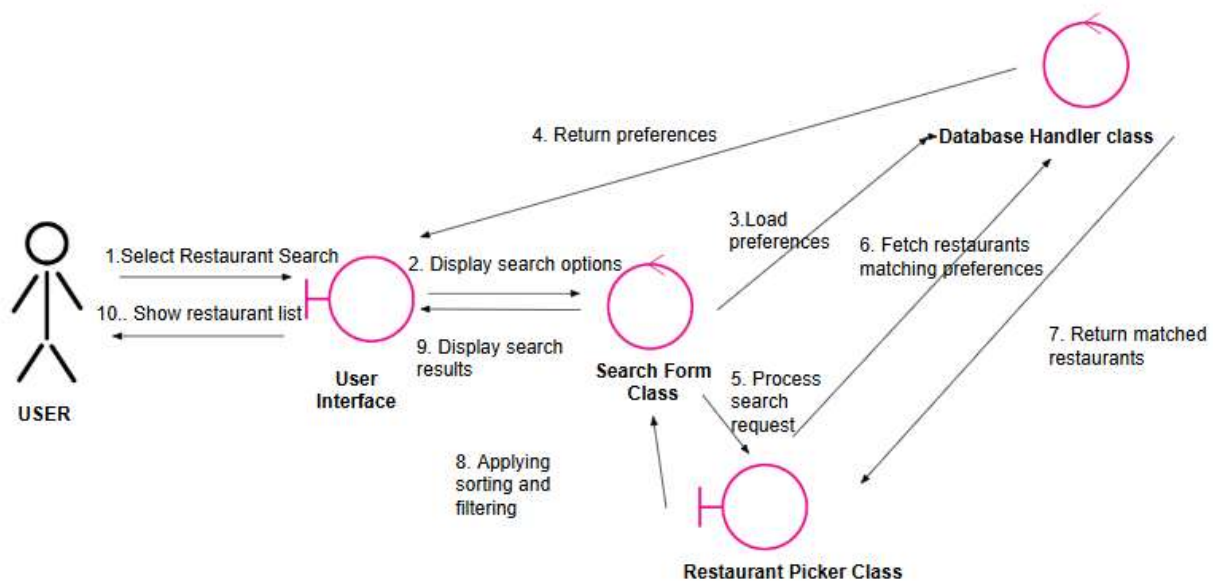




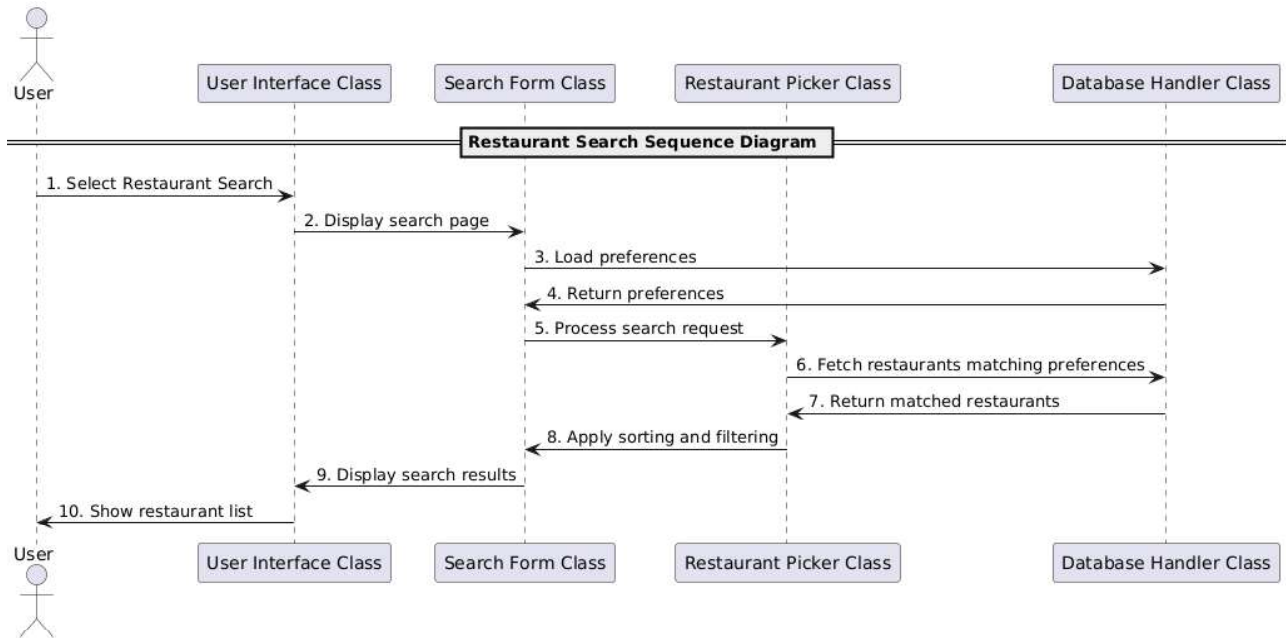


## 2.3: Restaurant Search

### Restaurant Search Communication Diagram

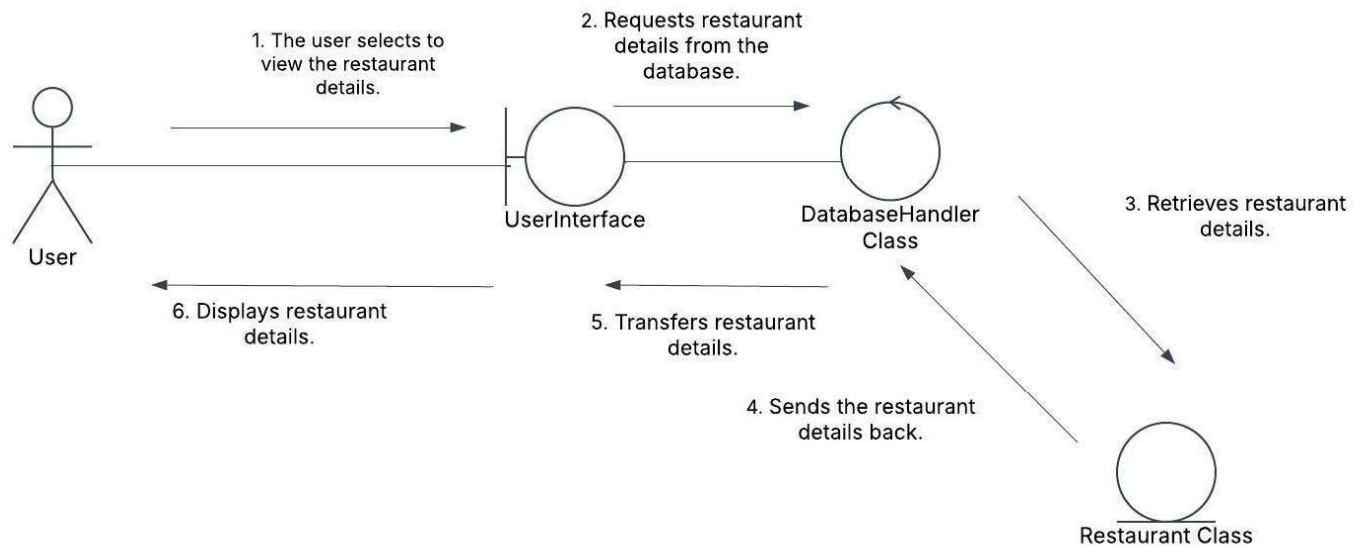




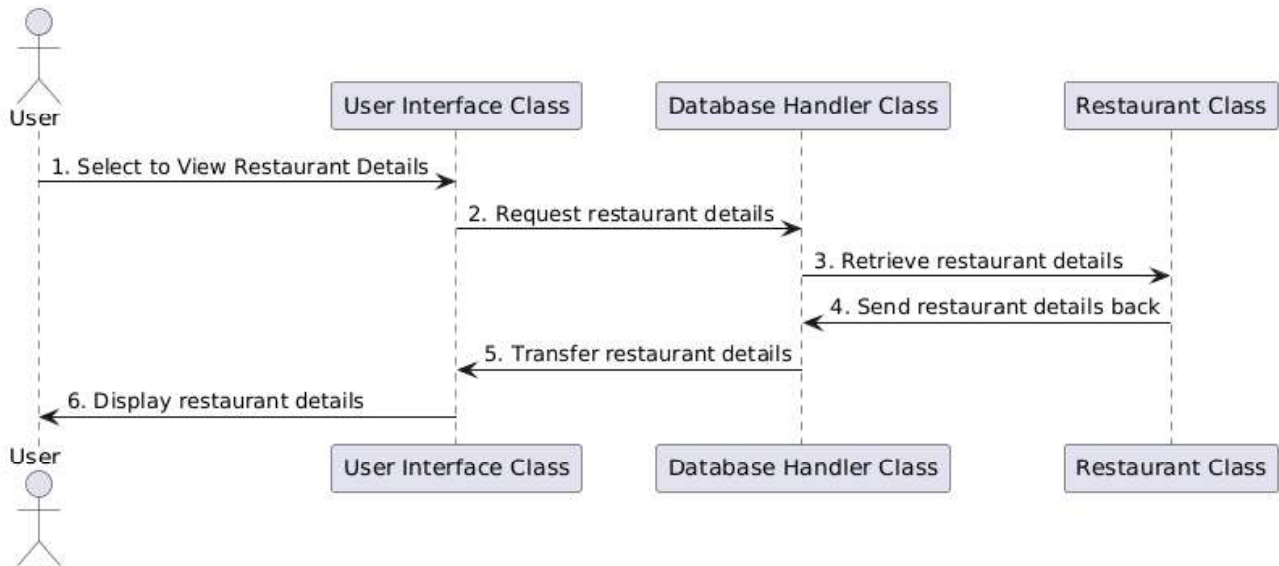


## 2.4:View restaurant details

### Viewing Restaurant Details Communication Diagram

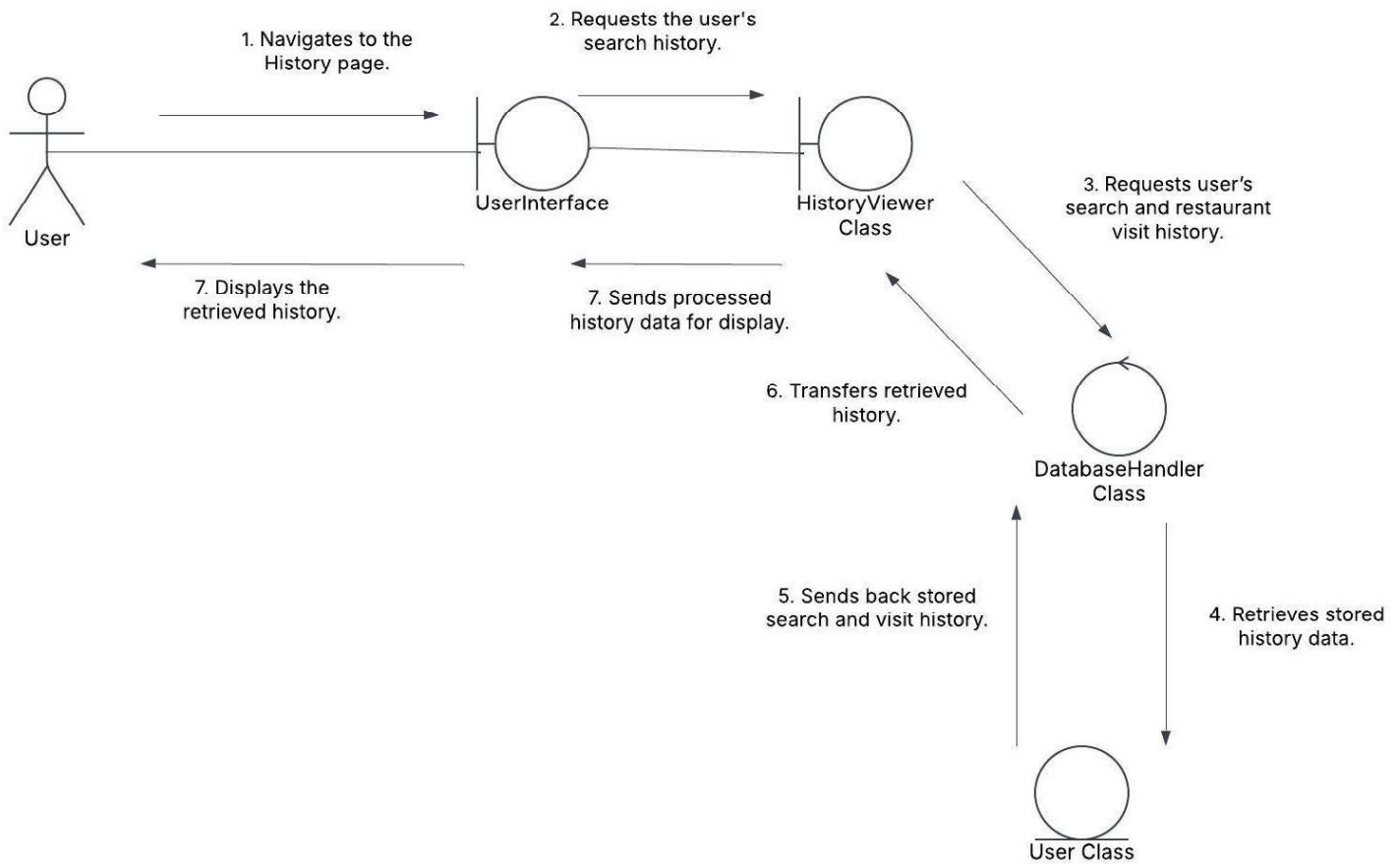


**Viewing Restaurant Details Sequence Diagram**

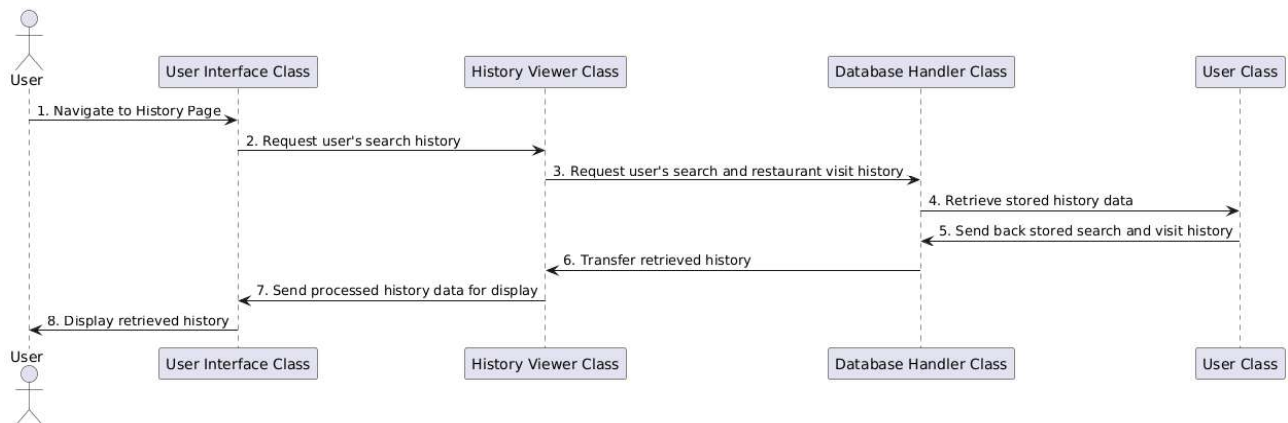


## 2.5: Viewing History

### Viewing History Communication Diagram



**Viewing History Sequence Diagram**



## 2.5: Viewing History

### Viewing History Communication Diagram

