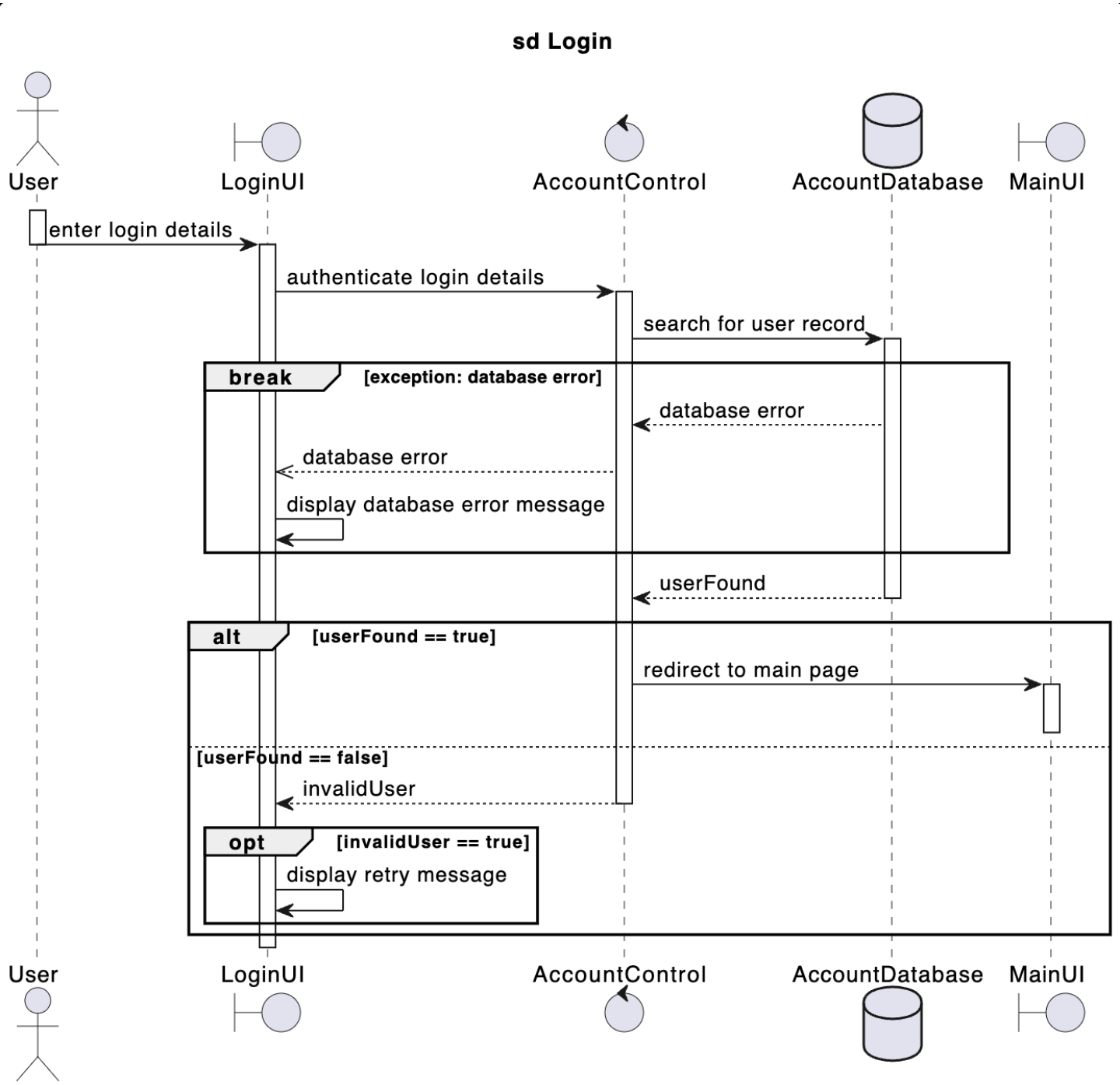
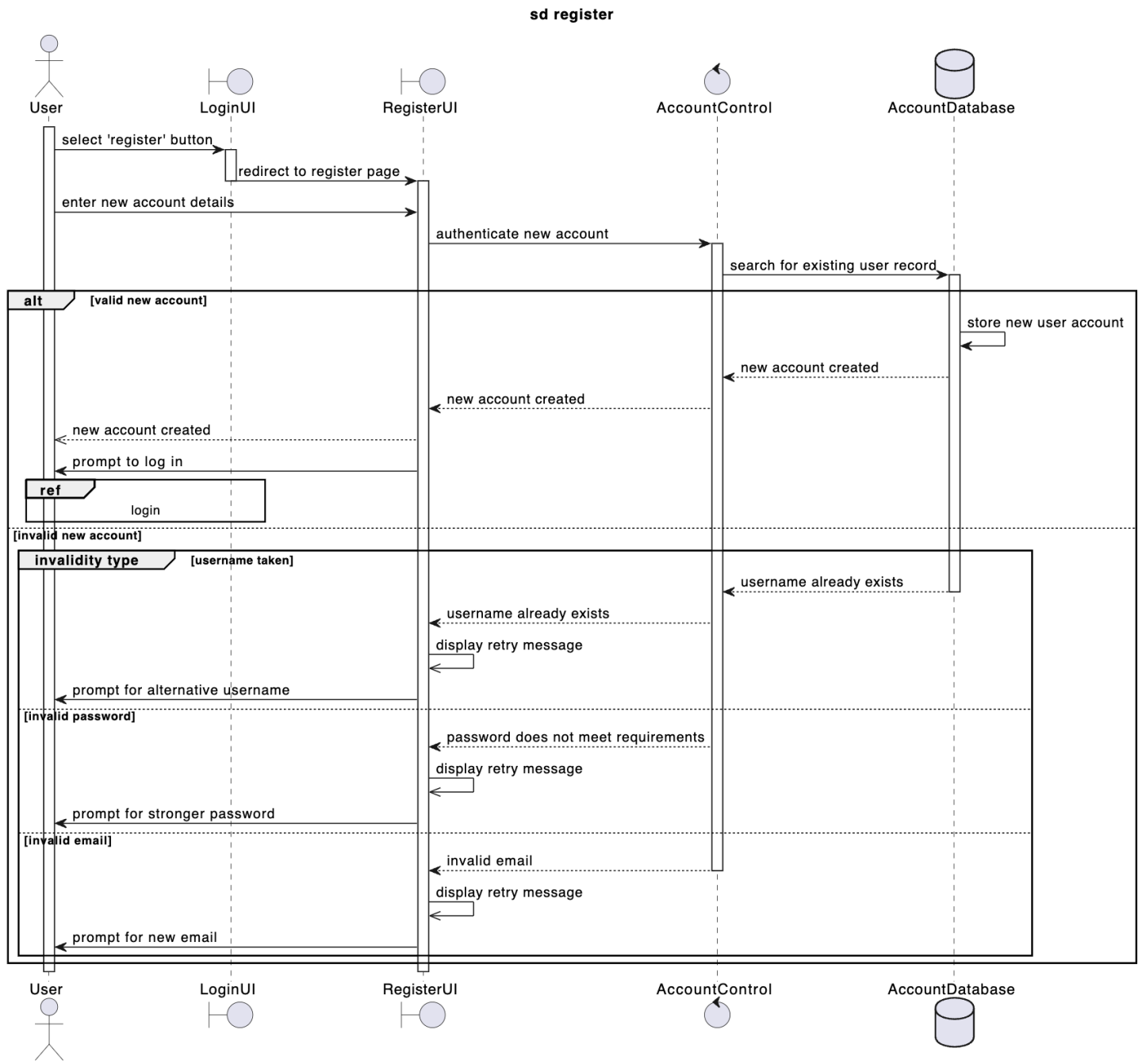
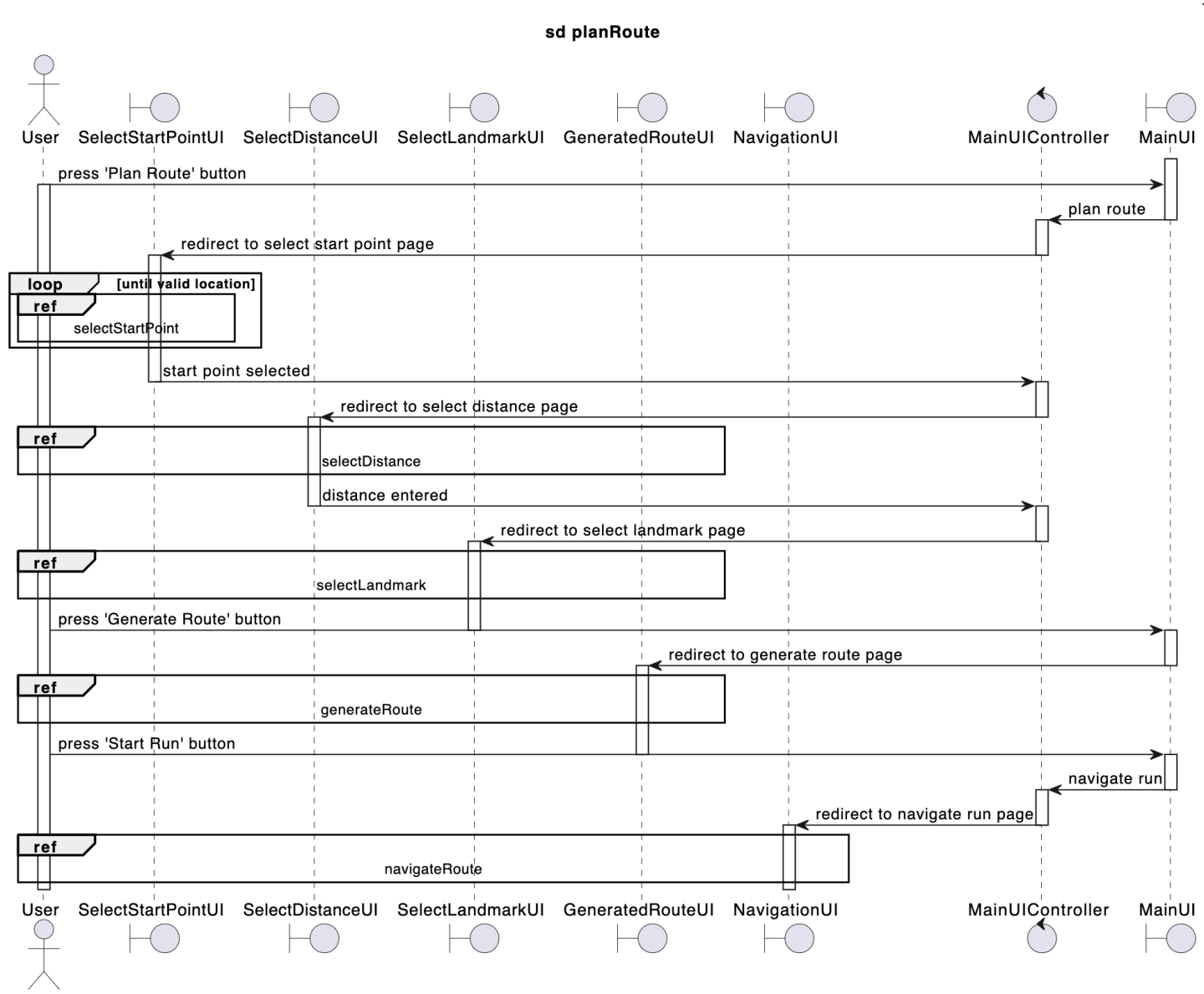
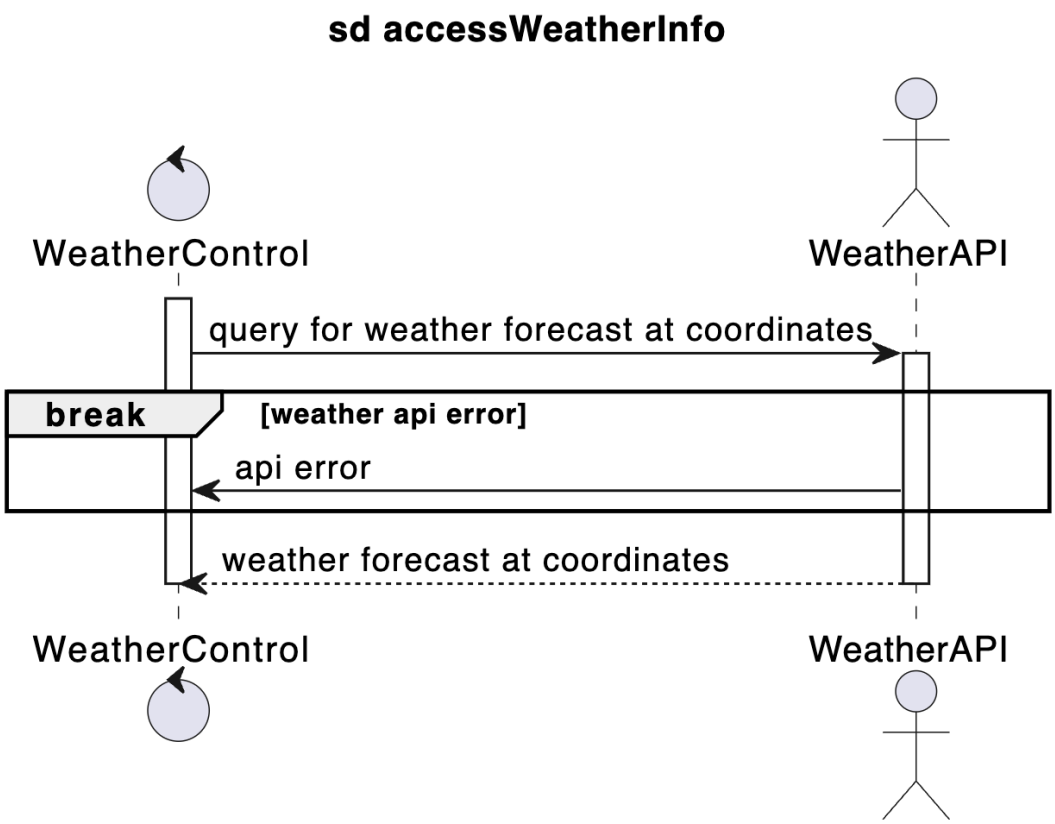
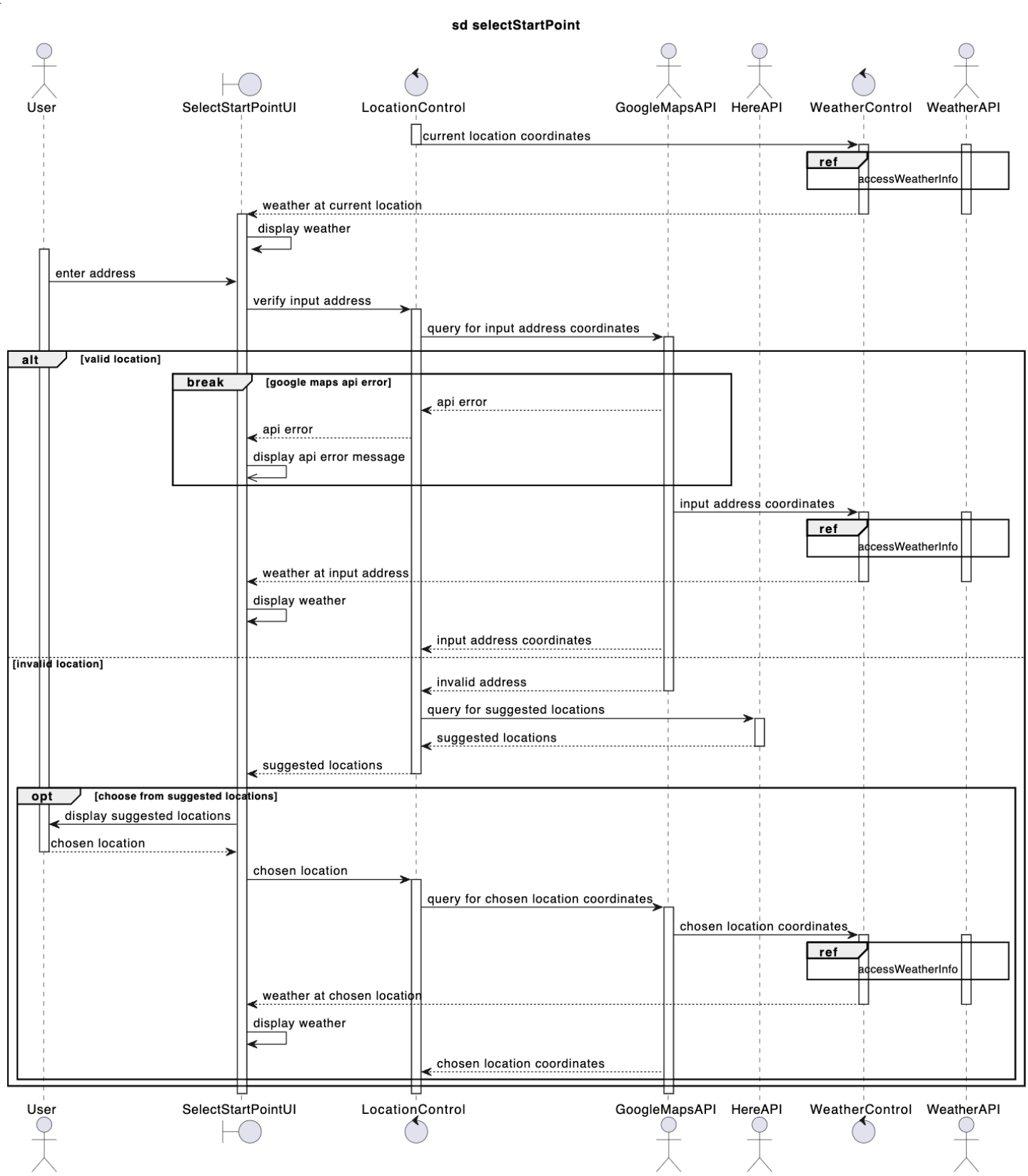
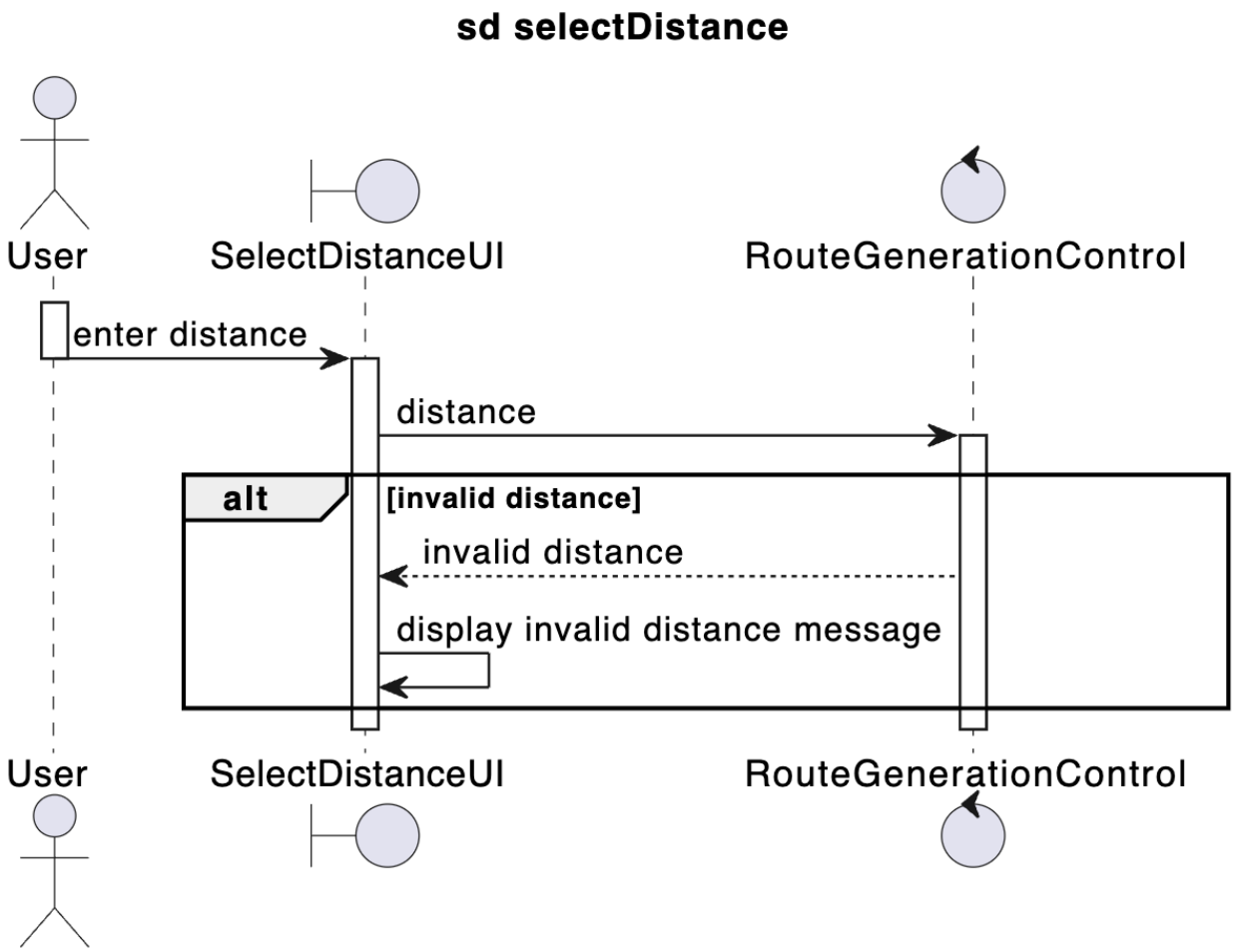

sd Login
User
LoginUI
AccountControl
AccountDatabase
MainUI
enter login details
authenticate login details
search for user record
break
[exception: database error]
database error
database error
display database error message
userFound
alt
[userFound == true]
redirect to main page
[userFound == false]
invalidUser
opt
[invalidUser == true]
display retry message
User
LoginUI
AccountControl
AccountDatabase
MainUI

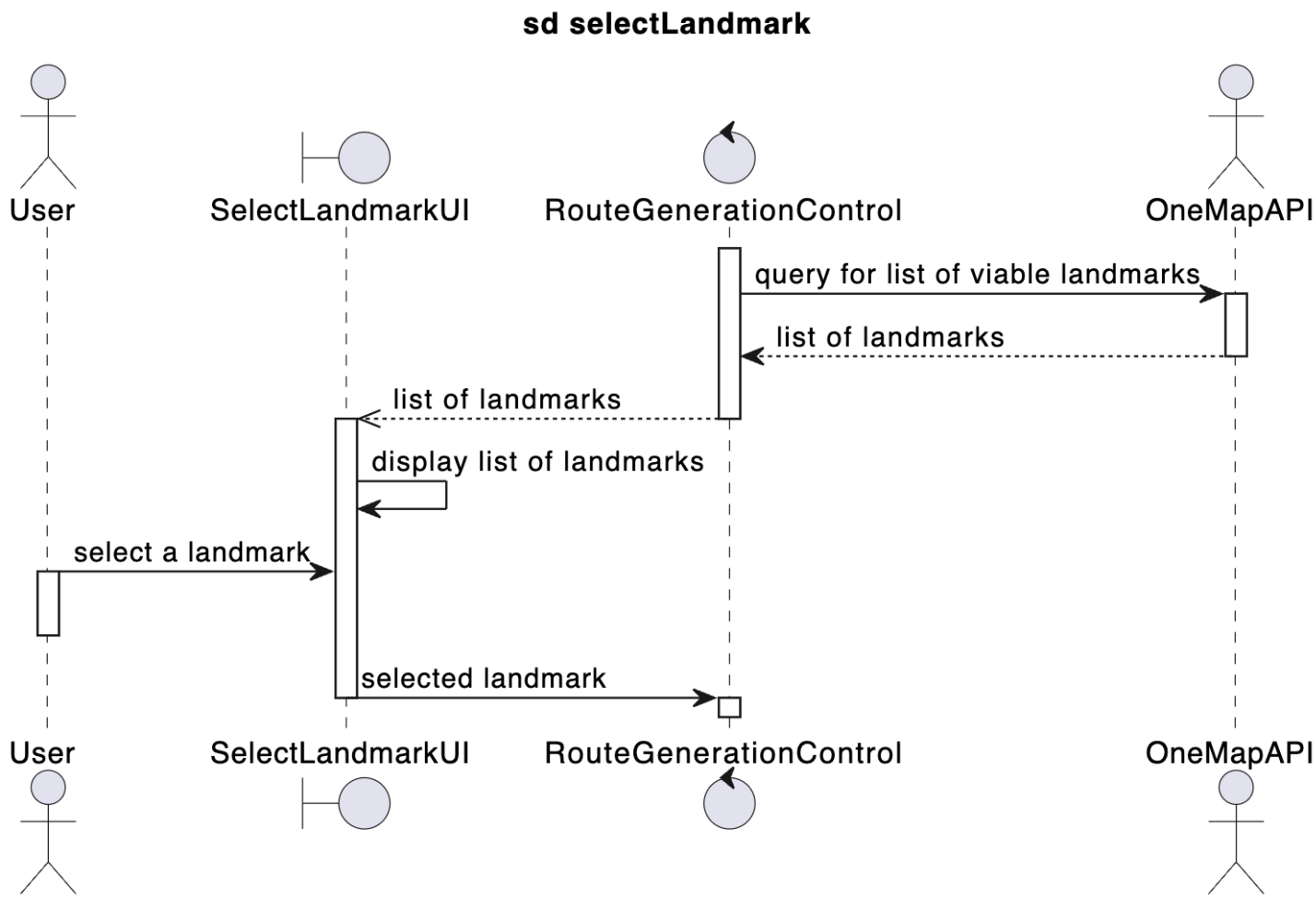

sd register
User
LoginUI
RegisterUI
AccountControl
AccountDatabase
select 'register' button
redirect to register page
enter new account details
authenticate new account
search for existing user record
alt
[valid new account]
store new user account
new account created
new account created
new account created
prompt to log in
ref
login
[invalid new account]
invalidity type
[username taken]
username already exists
username already exists
display retry message
prompt for alternative username
[invalid password]
password does not meet requirements
display retry message
prompt for stronger password
[invalid email]
invalid email
display retry message
prompt for new email
User
LoginUI
RegisterUI
AccountControl
AccountDatabase

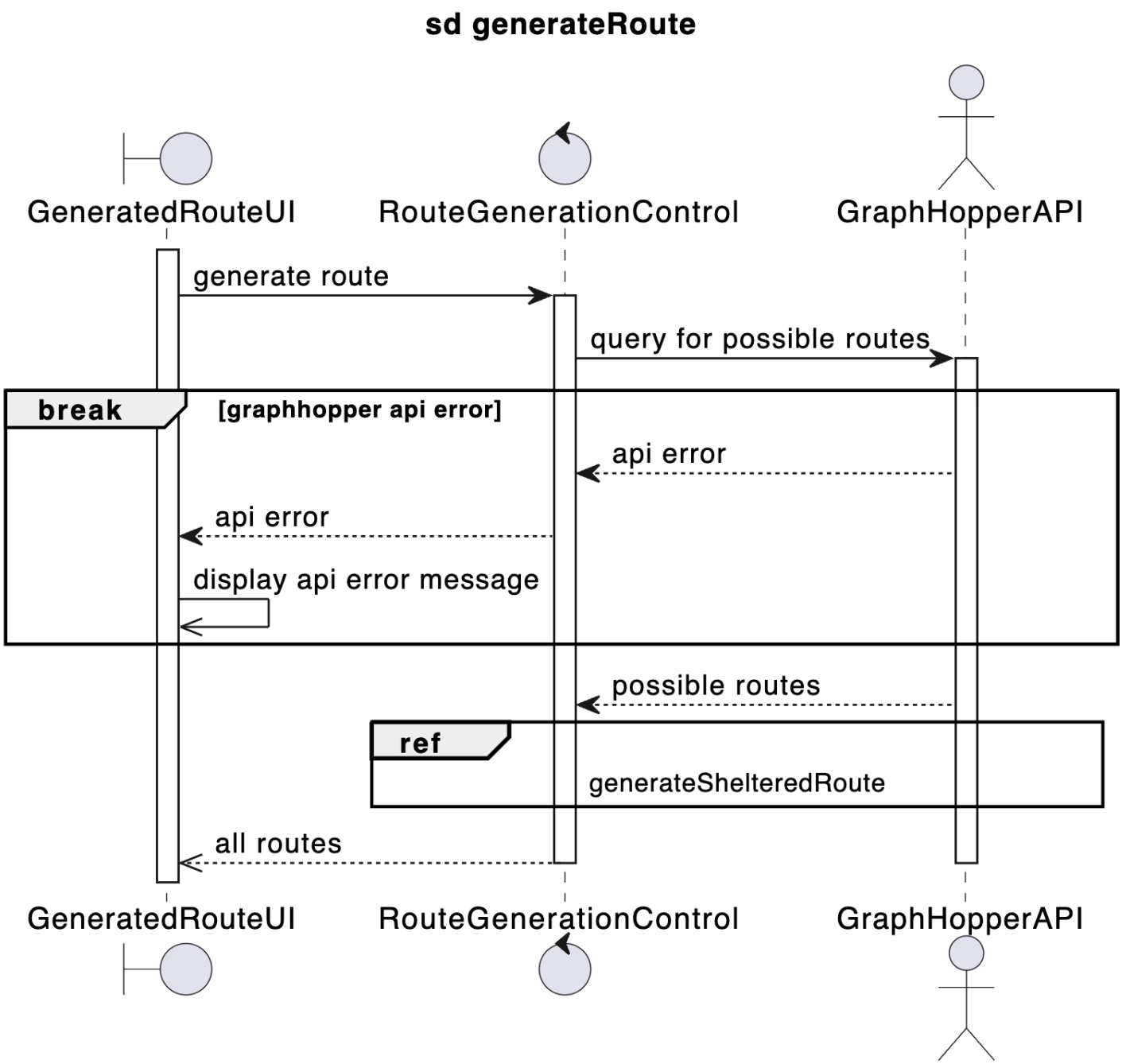

sd planRoute
User
SelectStartPointUI
SelectDistanceUI
SelectLandmarkUI
GeneratedRouteUI
NavigationUI
MainUIController
MainUI
press 'Plan Route' button
plan route
redirect to select start point page
loop
[until valid location]
ref
selectStartPoint
start point selected
redirect to select distance page
ref
selectDistance
distance entered
redirect to select landmark page
ref
selectLandmark
press 'Generate Route' button
redirect to generate route page
ref
generateRoute
press 'Start Run' button
navigate run
redirect to navigate run page
ref
navigateRoute
User
SelectStartPointUI
SelectDistanceUI
SelectLandmarkUI
GeneratedRouteUI
NavigationUI
MainUIController
MainUI

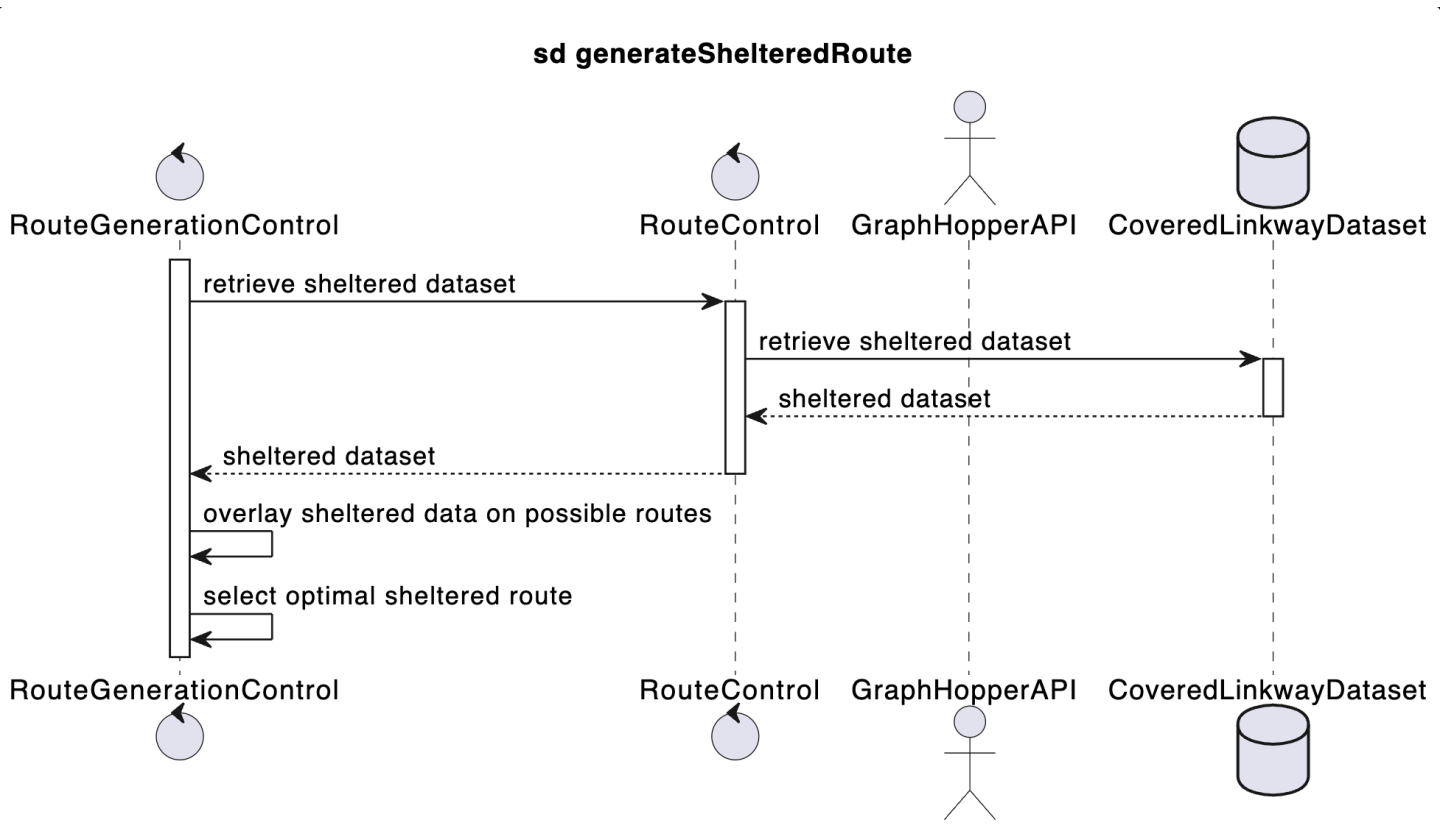

sd accessWeatherInfo
WeatherControl
WeatherAPI
query for weather forecast at coordinates
break
[weather api error]
api error
weather forecast at coordinates
WeatherControl
WeatherAPI

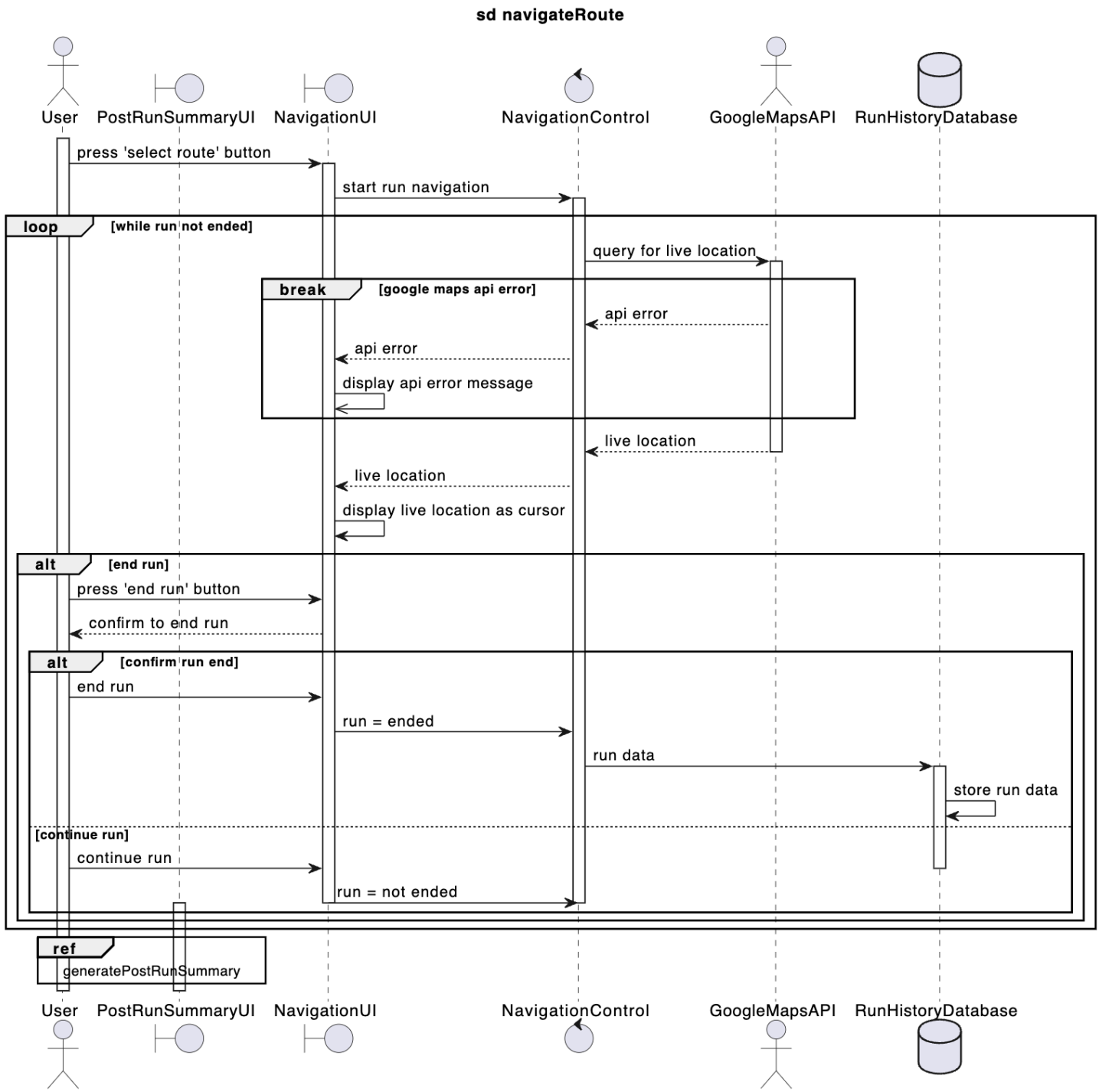

sd selectStartPoint
User
SelectStartPointUI
LocationControl
GoogleMapsAPI
HereAPI
WeatherControl
WeatherAPI
current location coordinates
ref
accessWeatherInfo
weather at current location
display weather
enter address
verify input address
query for input address coordinates
alt
[valid location]
break
[google maps api error]
api error
api error
display api error message
input address coordinates
ref
accessWeatherInfo
weather at input address
display weather
input address coordinates
[invalid location]
invalid address
query for suggested locations
suggested locations
suggested locations
opt
[choose from suggested locations]
display suggested locations
chosen location
chosen location
query for chosen location coordinates
chosen location coordinates
ref
accessWeatherInfo
weather at chosen location
display weather
chosen location coordinates
User
SelectStartPointUI
LocationControl
GoogleMapsAPI
HereAPI
WeatherControl
WeatherAPI

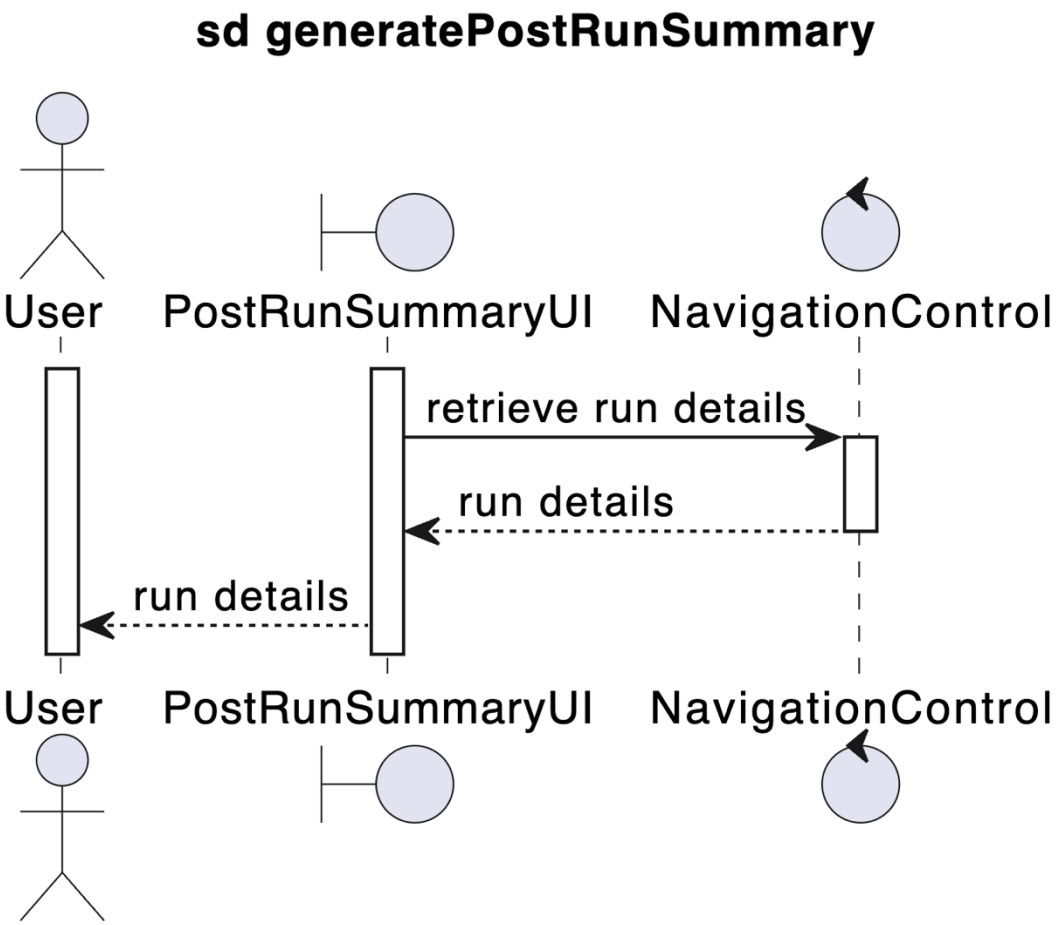

sd selectDistance
User
SelectDistanceUI
RouteGenerationControl
enter distance
distance
alt
[invalid distance]
invalid distance
display invalid distance message
User
SelectDistanceUI
RouteGenerationControl

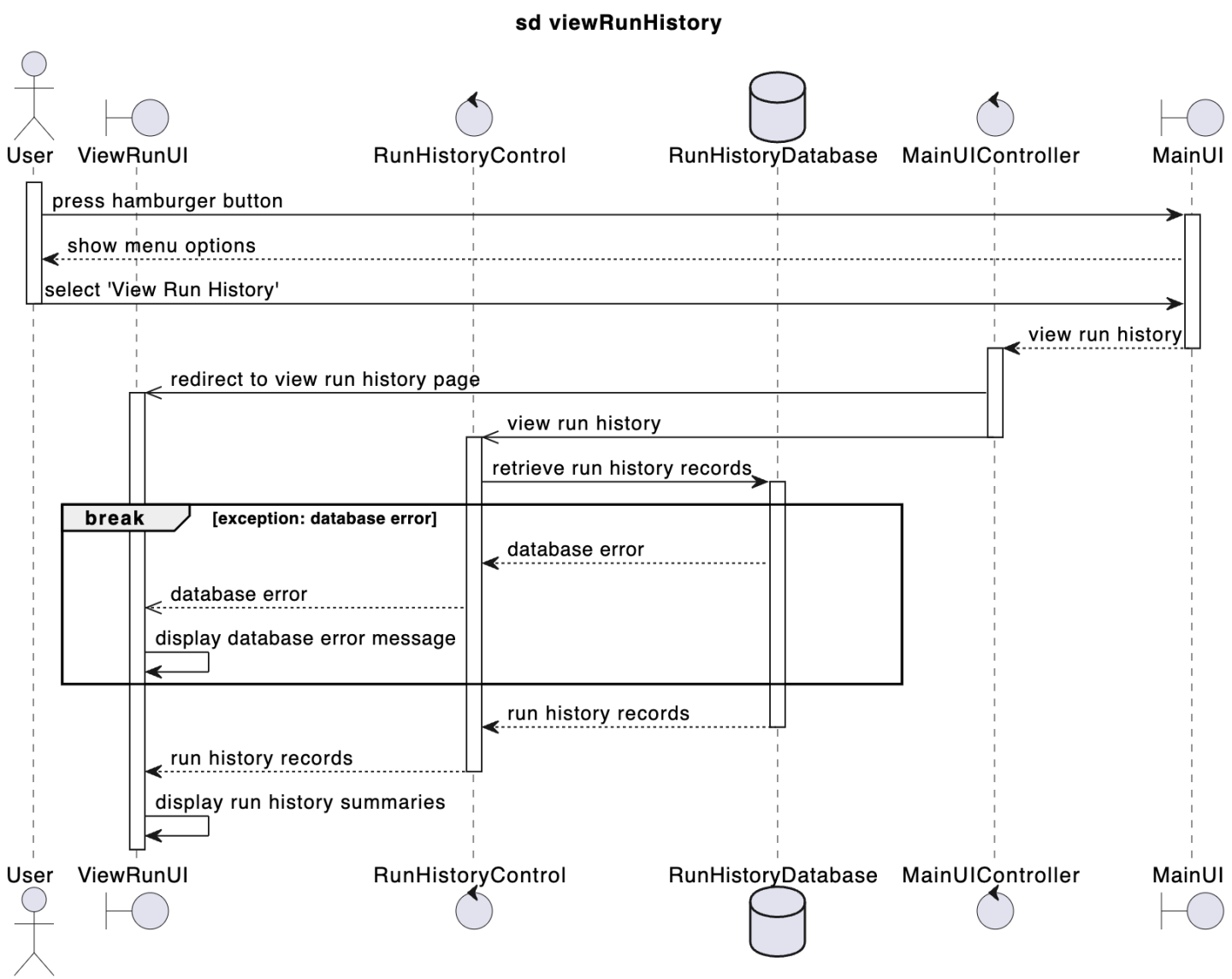

sd selectLandmark
User
SelectLandmarkUI
RouteGenerationControl
OneMapAPI
query for list of viable landmarks
list of landmarks
list of landmarks
display list of landmarks
select a landmark
selected landmark
User
SelectLandmarkUI
RouteGenerationControl
OneMapAPI


sd generateRoute
GeneratedRouteUI
RouteGenerationControl
GraphHopperAPI
generate route
query for possible routes
break
[graphhopper api error]
api error
api error
display api error message
possible routes
ref
generateShelteredRoute
all routes
GeneratedRouteUI
RouteGenerationControl
GraphHopperAPI


sd generateShelteredRoute
RouteGenerationControl
RouteControl
GraphHopperAPI
CoveredLinkwayDataset
retrieve sheltered dataset
retrieve sheltered dataset
sheltered dataset
sheltered dataset
overlay sheltered data on possible routes
select optimal sheltered route
RouteGenerationControl
RouteControl
GraphHopperAPI
CoveredLinkwayDataset


sd navigateRoute
User
PostRunSummaryUI
NavigationUI
NavigationControl
GoogleMapsAPI
RunHistoryDatabase
press 'select route' button
start run navigation
loop
[while run not ended]
query for live location
break
[google maps api error]
api error
api error
display api error message
live location
live location
display live location as cursor
alt
[end run]
press 'end run' button
confirm to end run
alt
[confirm run end]
end run
run = ended
run data
store run data
[continue run]
continue run
run = not ended
ref
generatePostRunSummary
User
PostRunSummaryUI
NavigationUI
NavigationControl
GoogleMapsAPI
RunHistoryDatabase


sd generatePostRunSummary
User
PostRunSummaryUI
NavigationControl
retrieve run details
run details
run details
User
PostRunSummaryUI
NavigationControl


sd viewRunHistory
User
ViewRunUI
RunHistoryControl
RunHistoryDatabase
MainUIController
MainUI
press hamburger button
show menu options
select 'View Run History'
view run history
redirect to view run history page
view run history
retrieve run history records
break
[exception: database error]
database error
database error
display database error message
run history records
run history records
display run history summaries
User
ViewRunUI
RunHistoryControl
RunHistoryDatabase
MainUIController
MainUI