

Project Vision:

We will be making a Planner application that can support event interactions, recognize event proposals, recognize resources, allow booking event times, and disallow two groups from booking to the same resources. The Planner should be able to create/delete events on the Planner, archive events, delete events that have already passed, and edit pre-existing events. We may add or change some features in the future, but this is the baseline we have so far.

Requirements

Functional

1. **Events** should interact with each other
2. The **planner** should support sponsored search results
3. The **planner** should enforce logical scheduling
4. The **planner** should have a user hierarchy
5. The **planner** should support searching
6. The **planner** should be able to share information
7. The **user** can create an account
8. The **user** can view resources
9. The **user** can interact with services
10. The **user** can interact with calendars
11. The **user** can interact with events
12. The **user** can interact with friends
13. The **user** can update settings
14. The **user** can filter search results
15. The **user** can conduct business

Non-Functional

1. The planner, and its features, will be available in the English language.
2. Documentation for the planner will be written in English
3. All event dates are posted in the format of the Gregorian calendar
4. The planner assumes Central Standard Time
5. The planner should have a GUI

[illegible]

ID UC Create New User

Created By Bryce Clark

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service providers

Precondition

- User does not have an account

Postcondition

- A User is created

Main success scenario

1. User selects account type
2. User provides Credentials
3. User is updated

Extensions

a.* Anytime User exits account creation

1. User sent to desktop

1a. User selects account type User

1. User provides Credentials

2. User is updated

1b. User selects account type Business User

1. Business User provides Credentials

2. Business User is updated

ID UC Login

Created By Bryce Clark

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service providers

Precondition

- User wants to log in

Postcondition

- User is logged in

Main success scenario

1. User selects login type
2. User provides credentials
3. User is logged in

Extensions

a.* anytime User exits login

1. User sent back to desktop

1a. User selects User login

1. User provides credentials
2. User is logged into Planner

1b. User selects Business User login

1. User provides credentials
2. Business User is logged into Business Planner

ID UC Manage Events

Created By Bryce Clark

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service providers

Precondition

- User wants to manage an event

Postcondition

- Event is updated

Main success scenario

1. User selects manage events
2. User picks option
3. Option is executed

Extensions

a.* anytime User exits manage event

1. Event is restored before User made any edits

1a. No Events Exist

1. User creates an event

2. User input information

3. Planner is updated

2a. User selects add service

1. User inputs information

2. Planner is updated

2b. User wants to Edit the Event

1. User selects event to edit

2. User inputs information

3. Planner is updated

2b.2a. Edits result in event conflict

1. User receives warning message

2. Event is restored to before user made any edits

2c. User wants to Delete the Event

1. User selects event to delete
2. User confirms deletion
3. planner is updated

2d. User wants to Archive the Event

1. User select event to archive
2. User confirms archive
3. Planner is updated

2e. Business User wants to Sponsor an Event

1. Business User adds sponsorship to event
2. Planner is updated

ID UC Manage Friends Access

Created By

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- User wants to manage friends

Postcondition

- Friends are updated

Main success scenario

1. User selects other user
2. Other user given access to user information
3. Other user's access to user is changed

Extensions

a.* anytime User exits manage friends

1. No more updates are preformed
- 2.a User wishes to restrict access from a user with permission
 1. Other user's permission to user is removed

ID UC Filter search results

Created By

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Precondition

- User wants to filter search results

Postcondition

- Search results are updated

Main success scenario

1. User selects filter search results
2. User picks option
3. Option is executed

Extensions

a.* anytime user wants to exit

1. User sent to desktop

b.* anytime user wants to clear filter

1. User clears filter

2. Filter is cleared

2a. Filter by event

1. Results are filtered by event

2. Users get results

2b. Filter by location

1. Results are filtered by location

2. Users get results

2c. Filter by service

1. Results are filtered by service

2. Users get results

ID UC Set Notifications

Created By

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- Notifications are not set to the User/Business User wants

Postcondition

- Notifications are

Main success scenario

1. User chooses to set notifications
2. User chooses an option
3. Notifications are set

Extensions

a.* anytime User no longer wants to set notifications

1. Return to Planner

2a. User sets event notifications

1. Event notifications are set

2. Return to planner

2b. User sets service notifications

1. Service notifications are set

2. Return to planner

ID UC View Profiles

Created By

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Precondition

- User wants to view profiles of another User

Postcondition

- User views or cannot view other user's profiles

Main success scenario

1. User wants to view profile
2. User selects profile to view
3. User views profile

Extensions

a.* anytime user can exit out of view profile

1. the user is no longer presented with the profile

2a. Profile could be set to private

1. User will get a warning message

ID UC Search Planner

Created By Yutai Xue

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- User want to search for resources in Planner

Postcondition

- User gets result

Main success scenario

1. User inserts keyword and apply filters to search
2. User gets results

Extensions

a.* anytime User stops searching

1. Characters left in the search will not be remembered between instances

b.* anytime User wants to clear search

1. User clears search
2. Search is cleared

2a. User does not receive any results

1. System prompts user to reconsider their search term or filter

ID UC Set Setting

Created By Yi Ding

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- User wants to set settings

Postcondition

- Settings are updated

Main success scenario

1. User wants to set setting
2. User updates the settings

Extensions

a.* anytime User wants to exit settings

1. User ends action

2a. User forgets to save settings and exits

1. Settings is reset back before User edited it

ID UC Sponsored Search Results

Created By Yi Ding

Scope Travel planner

Stakeholders and interests

Business User

- Service Providers

Precondition

- Business User want to advertise

Postcondition

- Top search results are sponsored by Business User

Main success scenario

1. Business Users want to advertise
2. Business Users select advertise and inserts budget
3. Sponsor ranking is updated

Extensions

a.* anytime Business Users wants to exit advertise

1. Business Users ends action

2a. Business Users decide to not invest and exits advertise

1. Business Users ends action

ID UC View Planner

Created By Yutai Xue

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- User want to view Planner

Postcondition

- User view Planner

Main success scenario

1. User selects Planner to view
2. User views Planner

Extensions

a.* anytime User wants to exit select Planner

1. User sent back to the desktop

2a. User denied from viewing Planner

1. User receives a warning message

2. User remains on select Planner

ID UC Manage Services

Created By

Scope Travel planner

Stakeholders and interests

Business owner

- Wants to make profit by advertising services

Business employee

- Wants to advertise services that they provide

Precondition

- User with business access wants to manage service

Postcondition

- Service is updated

Main success scenario

1. Business User picks service
2. Business edits the service attributes
3. Service is edited

Extensions

a.* anytime Business User exits manage service

1. Business User ends action
2. Service is restored before Business User made any edits

1a. The user does not select a service

1. New service is created
2. Business User inputs information
3. Business User ends action and service is updated

3a. Business User selects delete service

1. Business User selects service to delete
2. Business User confirms deletion
3. Business User ends action and service is updated

ID UC Manage Booking

Created By Benjamin Kilpatrick

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- User want to manage booking

Postcondition

- Booking has been updated

Main success scenario

1. User selects booking
2. User edits the booking
3. Booking is saved

Extensions

a.* anytime User exits manage booking

1. User ends action

2. Booking is restored before User made any edits

1a. User selects creates new booking

1. User inputs information

2. User ends action and booking is updated

3c. User deletes booking

1. User confirms deletion

2. User ends action and booking is updated

ID UC Manage Planner

Created By Yutai Xue

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- User want to manage planner

Postcondition

- Planner is updated

Main success scenario

1. User wants to manage a planner
2. User picks option
3. Option is executed

Extensions

a.* anytime User exits manage planner

1. User ends action

2. Planner is restored before User made any edits

2a. User selects add planner

1. User inputs information

2. User ends action and planner is updated

2b. User selects edit planner

1. User selects planner to edit

2. User edits information

3. User ends action and planner is updated

2c. User selects delete planner

1. User selects planner to delete

2. User confirms deletion

3. User ends action and planner is updated

ID UC Payment

Created By Yi Ding

Scope Travel planner

Stakeholders and interests

User

- The person/persons who will be traveling on the trip.

Business User

- Service Providers

Precondition

- Payment is needed

Postcondition

- Payment has been paid

Main success scenario

1. User selects checkout
2. User gives payment information
3. User payment is archived

Extensions

a.* anytime User exits payment

1. User ends action

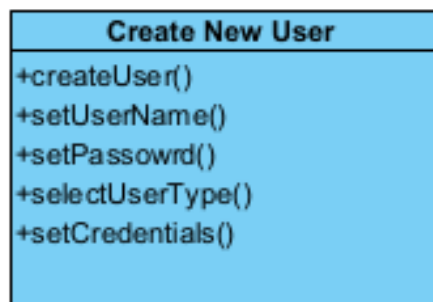
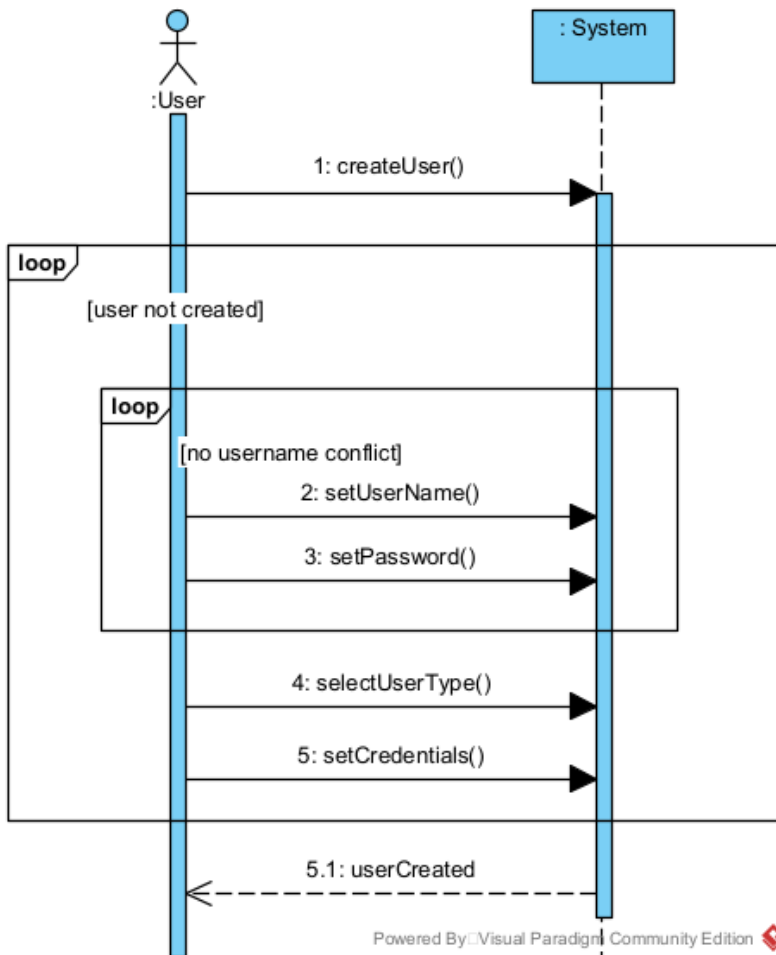
2a. User cannot afford the total

1. User receives a warning message

2. User ends action

SSD and Operation Contracts

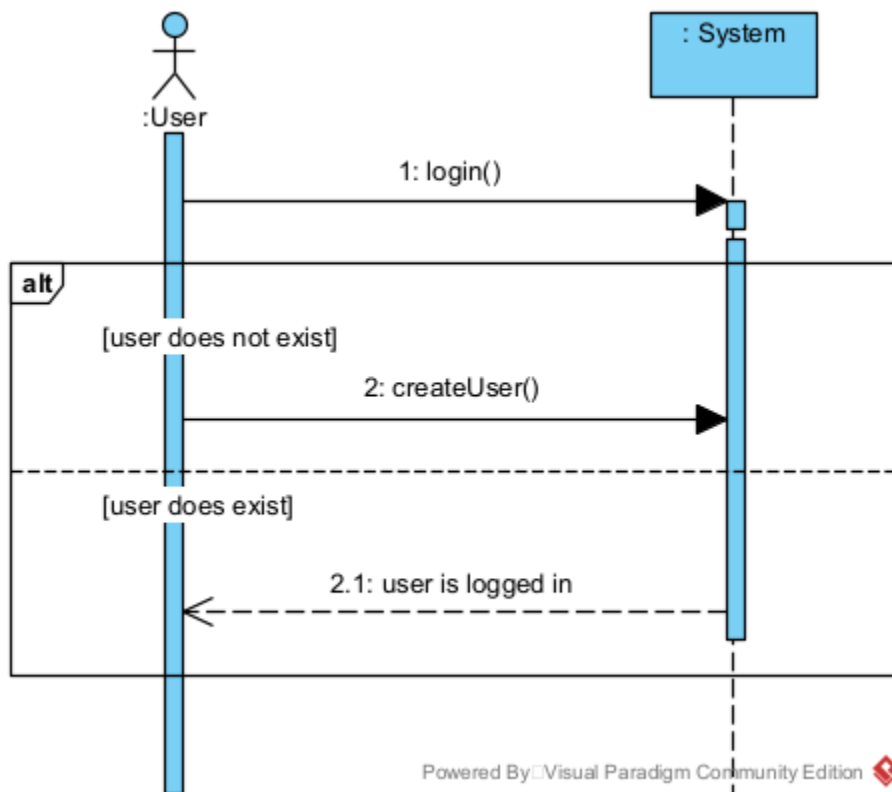
UC Create New User

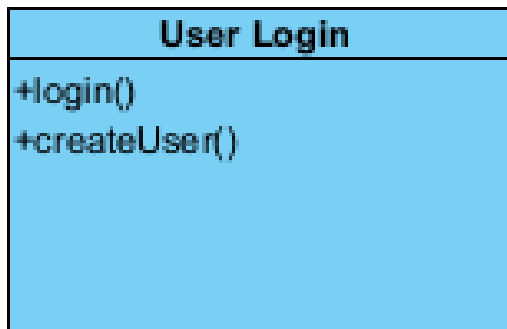


Contract: createUser
Operation: begins the create new user process
Cross Reference: user login
Pre-conditions: A user does not have an account.
Post-condition: A user is created.
Contract: setUsername
Operation: sets the username credential of the new user

Cross Reference: user login Pre-conditions: A new user has no username set. Post-condition: A new user has a username
Contract: setPassword()
Operation: sets the password credential of a new user Cross Reference: user login Pre-conditions: A new user does not have a password. Post-condition: A new user password is created.
Contract: selectUserType()
Operation: selects the type of a new user Cross Reference: user login Pre-conditions: A new user account does not have a type. Post-condition: A user password is created.
Contract: setCredentials()
Operation: sets the credentials to the values given in the previous functions Cross Reference: user login Pre-conditions: A new user account has no credentials Post-condition: A new user's credentials are set

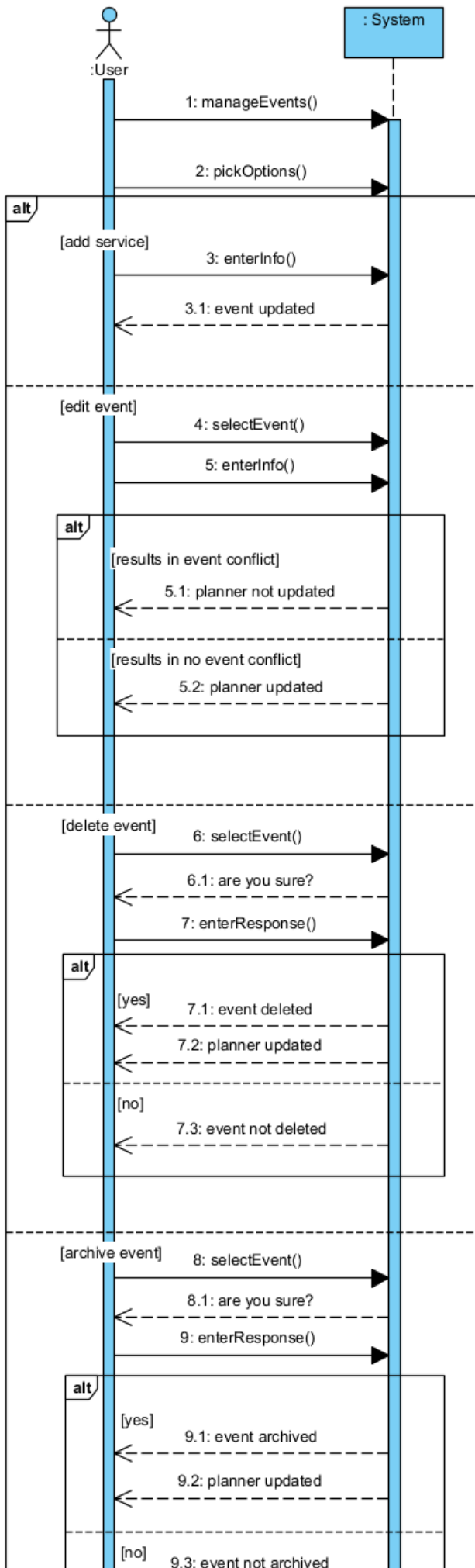
UC Login





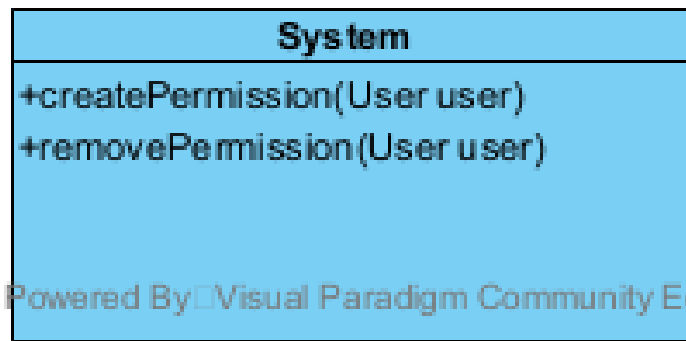
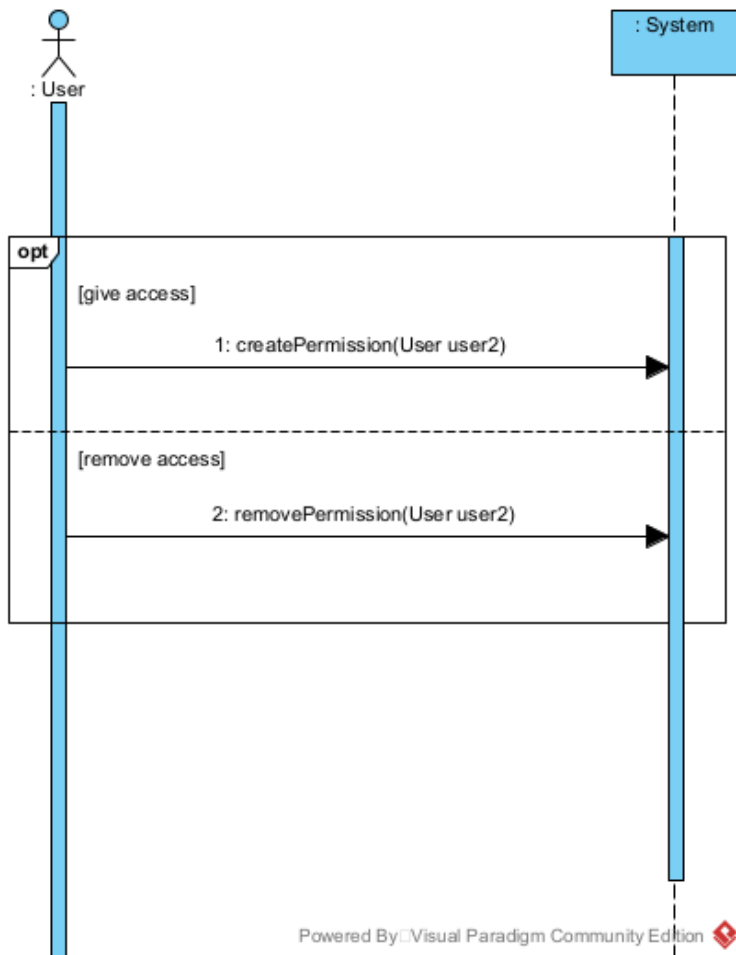
Contract: Login
Operation: user login Cross Reference: Login Pre-conditions: User wants to login. Post-condition: User is logged in.
Contract: createUser
Operation: begins process for new user creation Cross Reference: Login Pre-conditions: User wants to login, but has no account Post-condition: User has an account, may or may not be logged in

UC Manage Events



Manage Events
+manageEvents() +pickOptions() +enterInfo() +selectEvent() +enterResponse() +addSponsorship()

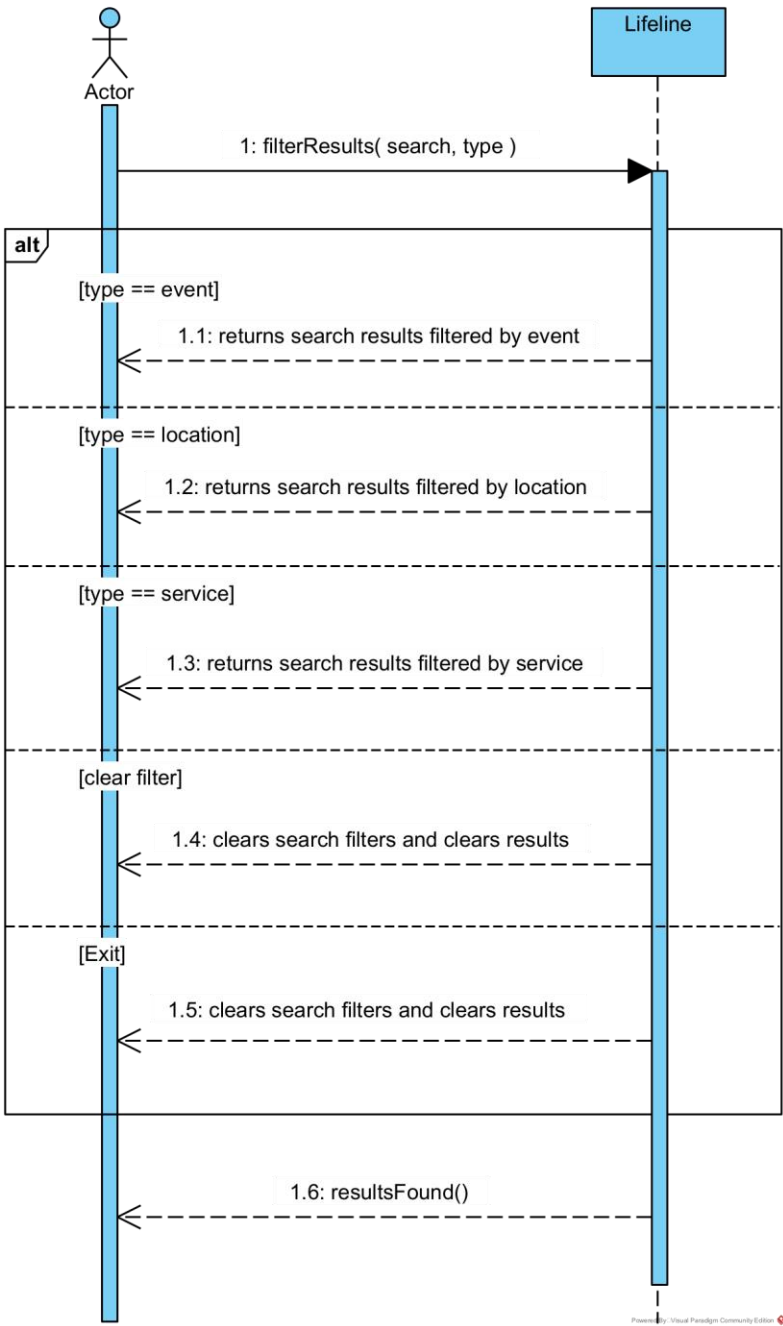
Contract: Manage Events
Operation: begins the manage event process Cross Reference: search, view planner Pre-conditions: User wants to manage event. Post-condition: Event is updated.
Contract: pickOptions()
Operation: user chooses an event management option Cross Reference: search, view planner Pre-conditions: User wants to manage an event. Post-condition: Management method is chosen
Contract: enterInfo()
Operation: user inputs information needed for the type of event management Cross Reference: search, view planner Pre-conditions: User selected event type Post-condition: Event information is updated
Contract: selectEvent()
Operation: user chooses an event management option Cross Reference: search, view planner Pre-conditions: User wants to manage an event. Post-condition: Management method is chosen
Contract: enterResponse()
Operation: user responds to the confirmation prompt Cross Reference: search, view planner Pre-conditions: Event has information to be filled in. Post-condition: User response is recorded
Contract: addSponsorship()
Operation: user adds a sponsorship to an event Cross Reference: search, view planner Pre-conditions: User wants to sponsor an event. Post-condition: Business sponsorship is added to an event



Contract: createPermission
Operation: creates permission for another user to access the active user's information
Cross Reference: Manage Friend Access
Pre-conditions: another user exists without access to the active user
Post-condition: the other user is granted access to the active users location and email.

Contract: removePermission
Operation: removes permission for another user to access the active user's information
Cross Reference: Manage Friend Access
Pre-conditions: another user exists with access to the active user
Post-condition: the other user's permission to view the active user's location and email is revoked.

UC Filter Search Results

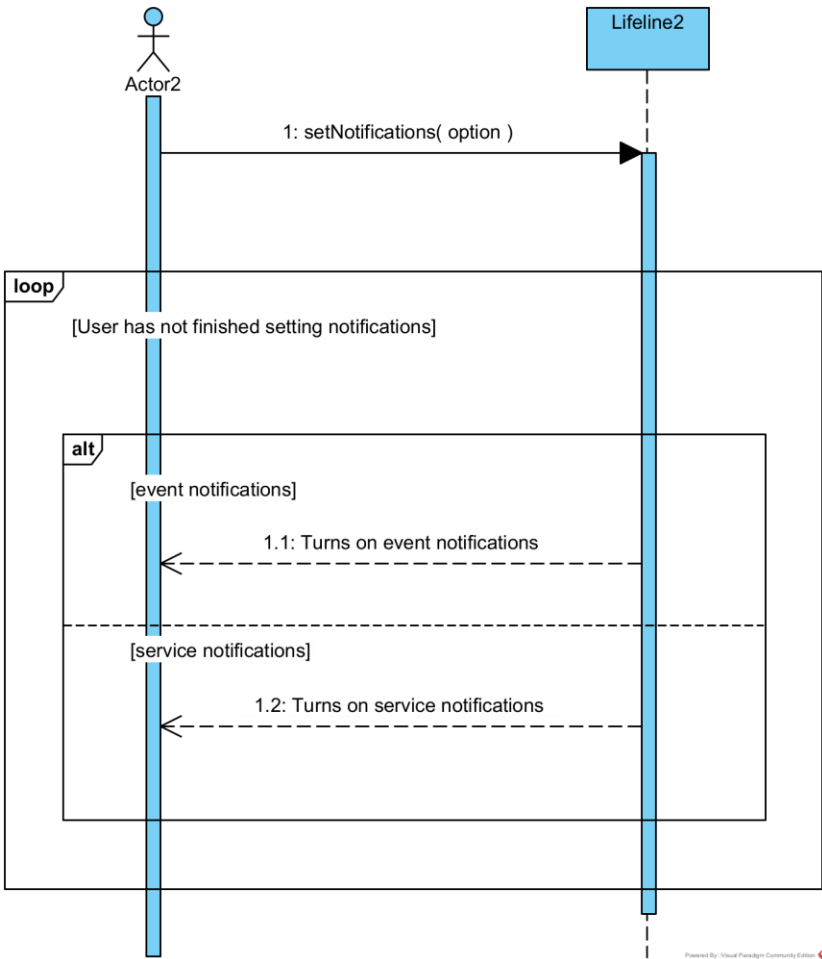


System
+filterResults(searching, type)
+resultsFound()

Contract: filterResults(searching, type)
Operation: Filters the results matching “searching” to only those that have the type of “type”
Cross Reference: Use Case: Filter Search Results

Pre-conditions: User wants to search for a specific result
Post-condition: User receives search results
Contract: resultsFound
Operation: Prints the results returned by filterResults
Cross Reference: Use Case: Filter Search Results
Pre-conditions: results aren't visible to user
Post-condition: results are printed for user to see

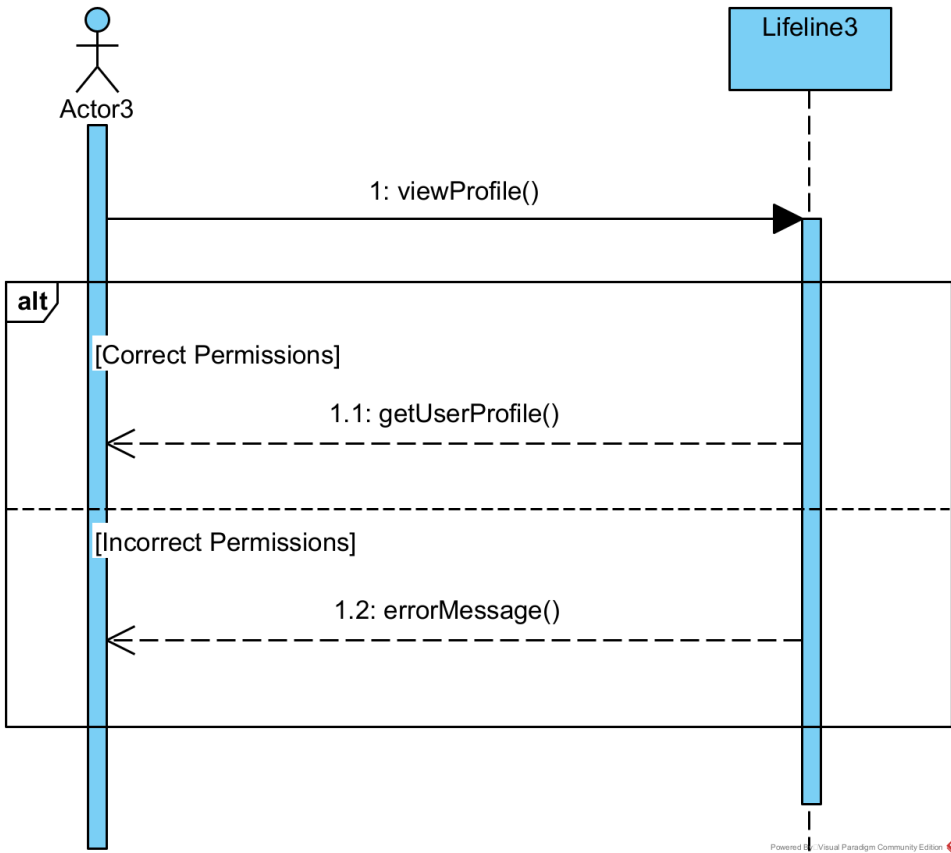
UC Set Notifications



SetNotifications
+setNotification(option)

Contract: set Notification (option)
Operation: sets notifications for the planner
Cross Reference: Use Case: Set Notifications
Pre-conditions: Notifications aren't properly configured
Post-condition: Notifications are configured

UC View Profiles



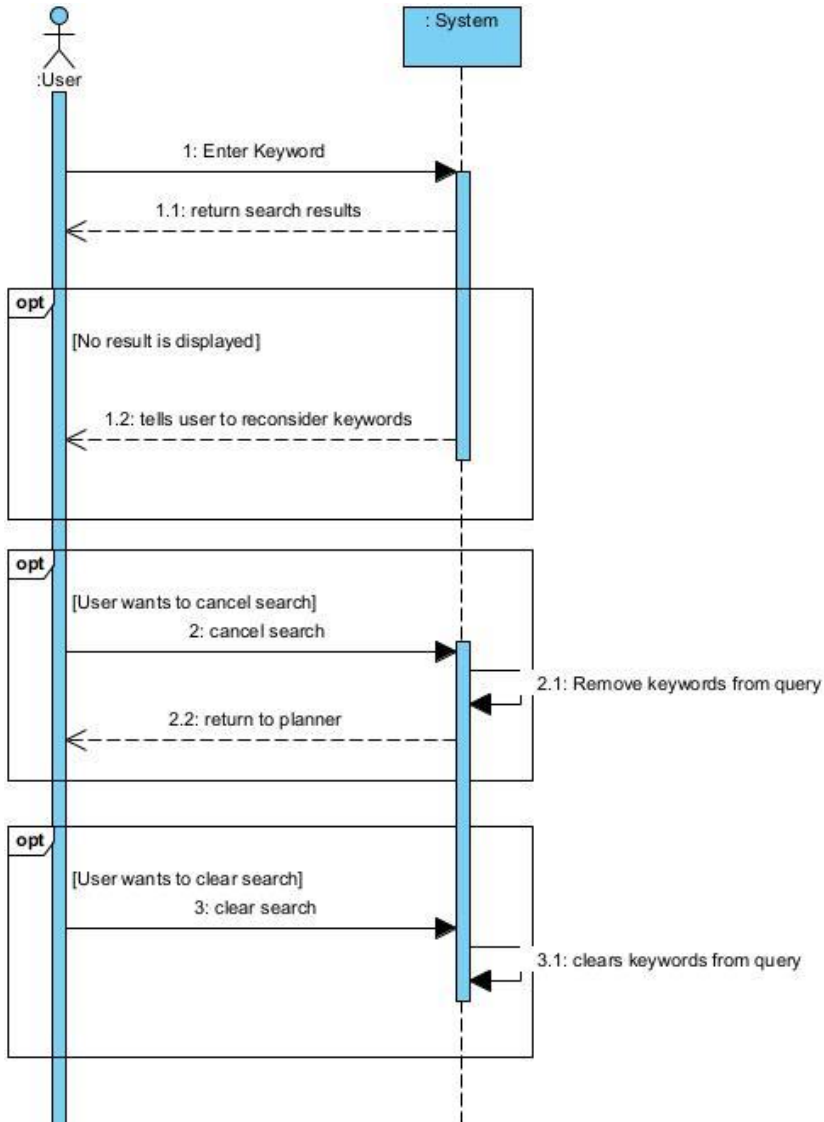
ViewProfiles

+viewProfile()
+getUserProfile()
+errorMessage()

Contract: viewProfile()
Operation: checks if the user is allowed to view the given profile
Cross Reference: Use Case: ViewProfiles
Pre-conditions: User wants to open other users' profiles
Post-condition: User's permissions are checked with the s
Contract: getUserProfile()
Operation: acquires the profile of a user and displays it
Cross Reference: Use Case: ViewProfiles
Pre-conditions: User has correct permissions to view the profile
Post-condition: Profile is displayed
Contract: errorMessage()

Operation: sends an error message if the User has incorrect
Cross Reference: Use Case: errorMessage()
Pre-conditions: User has incorrect permissions for viewing the profile
Post-condition: Error message is displayed

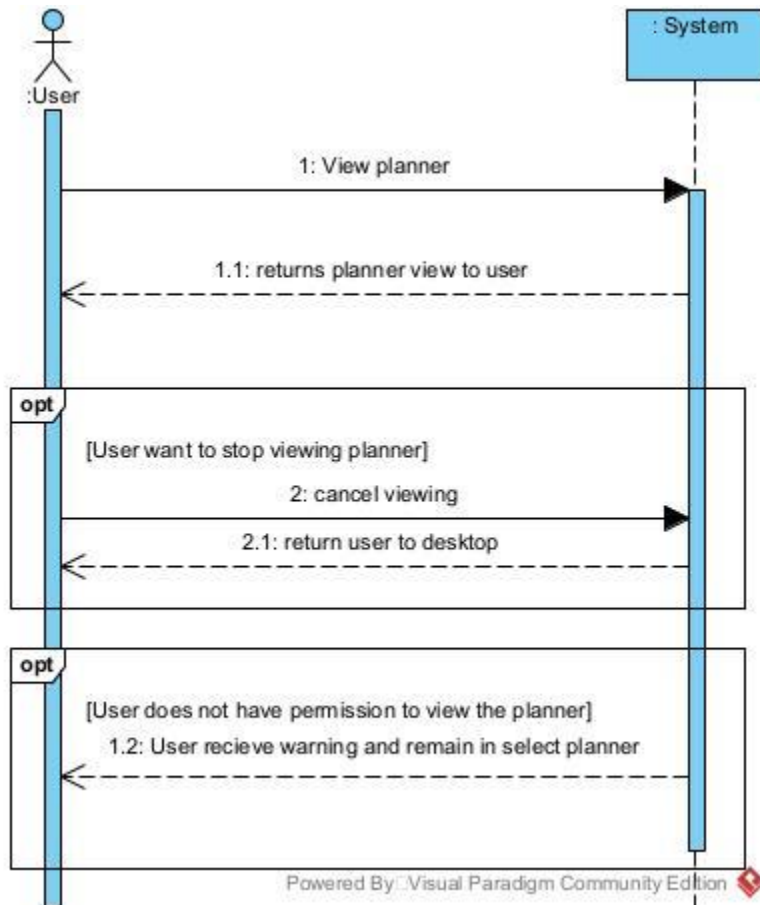
UC Search Planner



Contract: Search

Operation: searches for an item with a keyword
 Cross Reference: Filter Search Result
 Pre-conditions: User want to search for resources in Planner
 Post-condition: User gets result based on keyword

UC View Planner

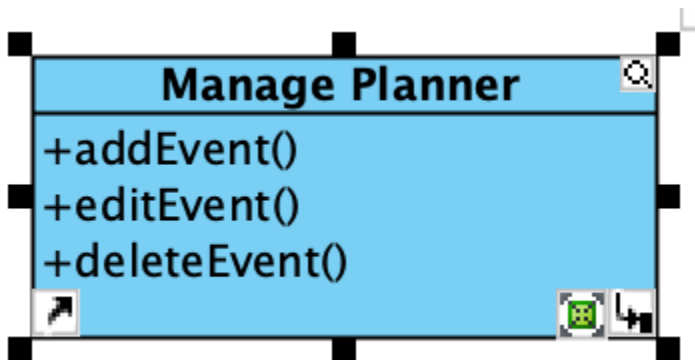
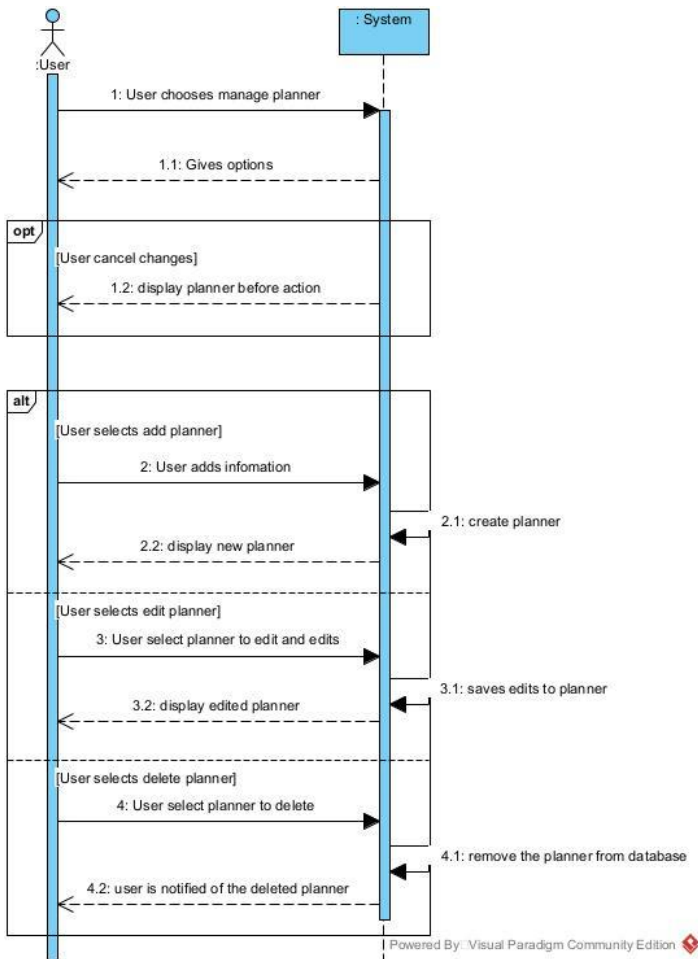


View Planner
+viewPlanner()

Contract: View Planner

Operation: selects planner to display
 Cross Reference: manage planner
 Pre-conditions: User want to view other planners
 Post-condition: User views other planners

UC Manage Planner



Contract: Manage Planner

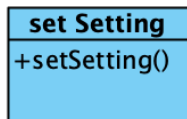
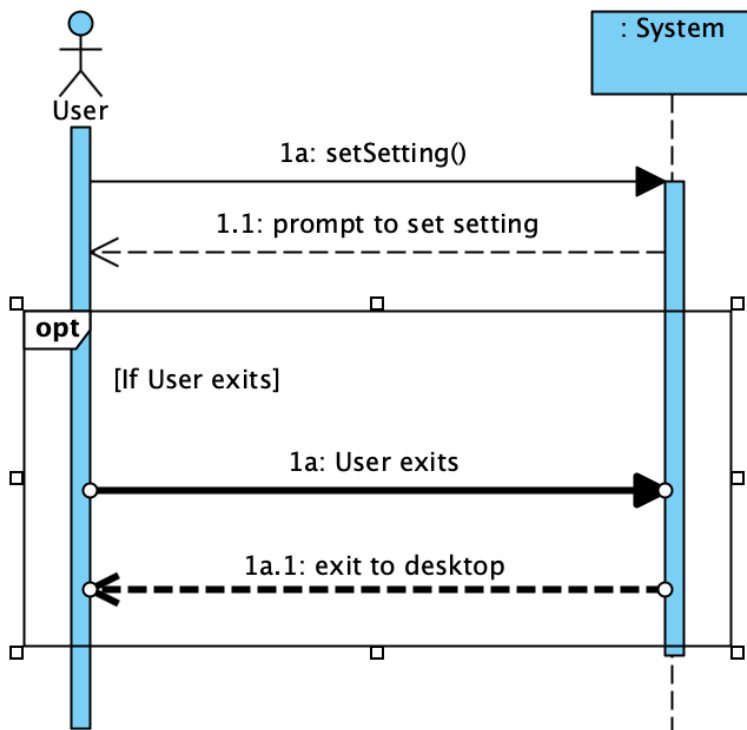
Operation: Allows for add, delete, or edit events from a planner

Cross Reference: Manage booking

Pre-conditions: User want to manage a planner

Post-condition: Planner selected has been updated

UC Set Settings



Contract: Set Setting

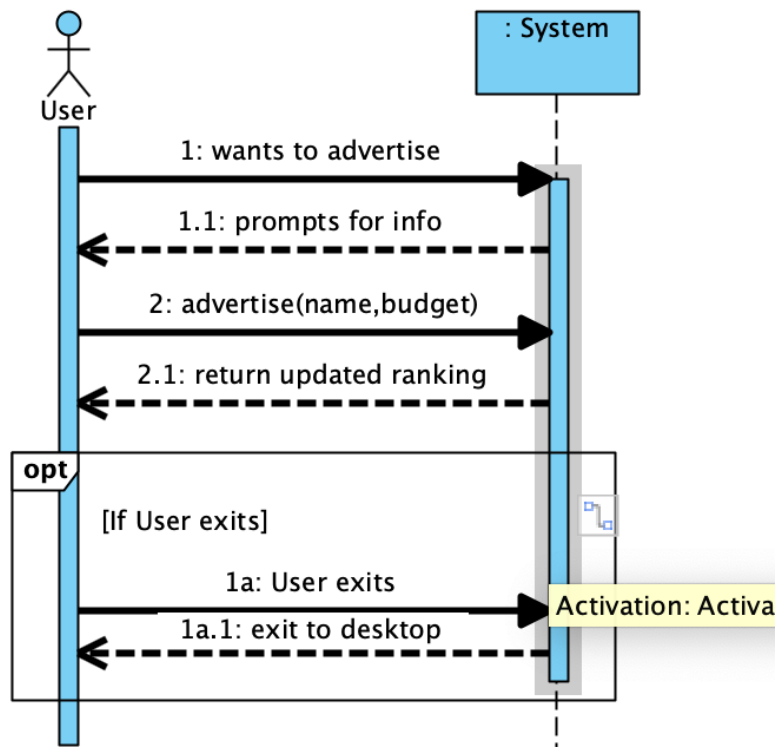
Operation: Allows User to set setting

Cross Reference: Filter search results

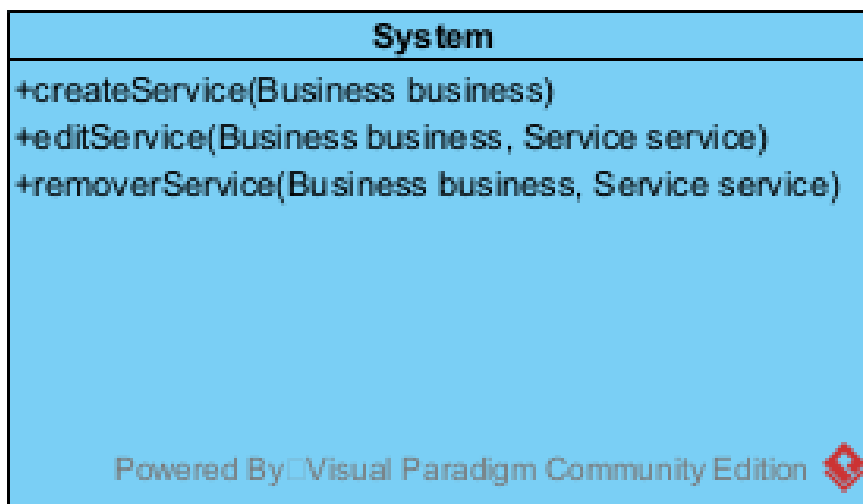
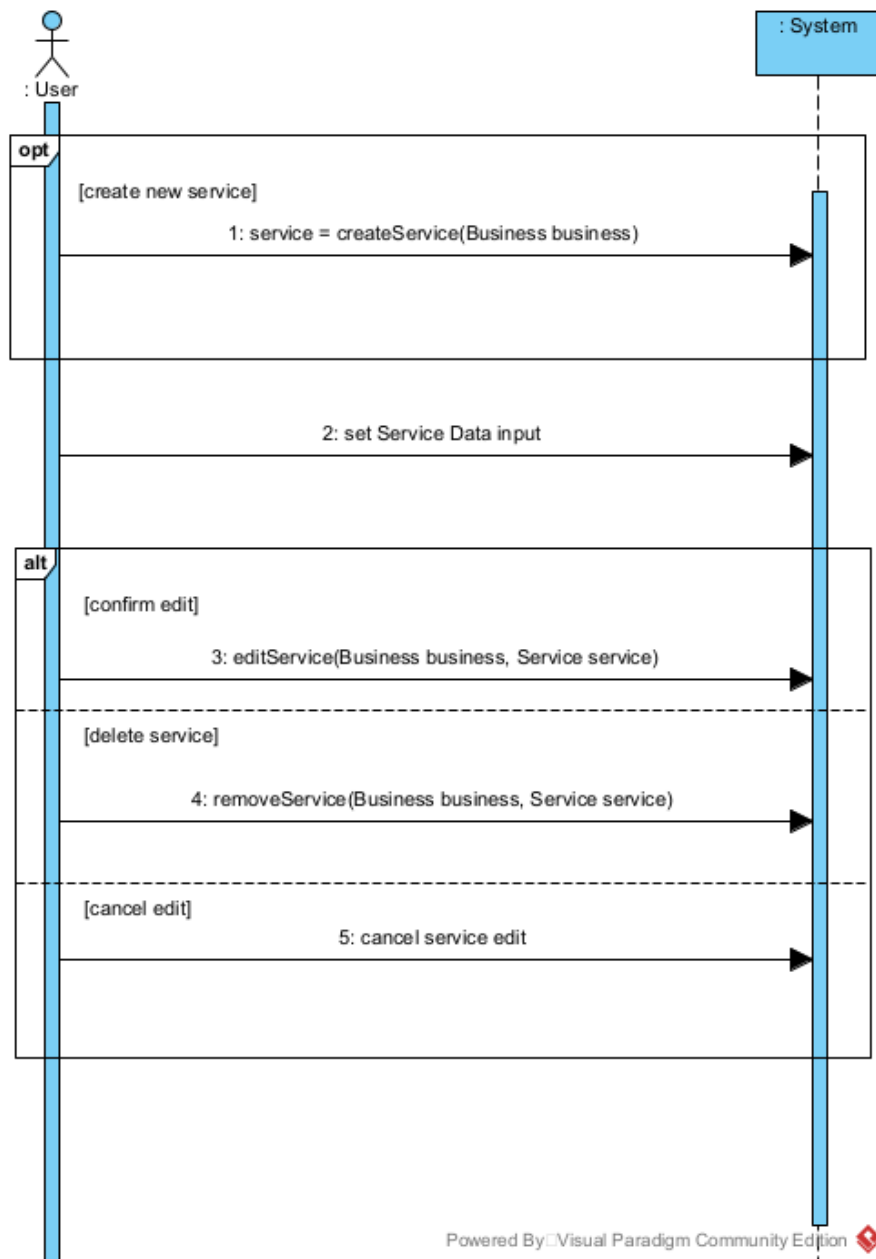
Pre-conditions: User wants to set settings

Post-condition: Settings are updated

UC Sponsored Search Results



Contract: Sponsored Search Results
Operation: Search results are padded with sponsors
Cross Reference: Filer search results
Pre-conditions: Business User wants to advertise
Post-condition: Rankings is updated



Contract: createService

Operation: creates a service that is sold by a buisness and booked by users for their events

Cross Reference: Manage Service

Pre-conditions: the user wants to create a service associated with a business to which they have access.

Post-condition: a new service is associated with a business

Contract: editService

Operation: edits a service that is sold by a business and booked by users for their events

Cross Reference: Manage Service

Pre-conditions: the user wants to edit a service associated with a business to which they have access.

Post-condition: a pre-existing service is edited

Contract: removeService

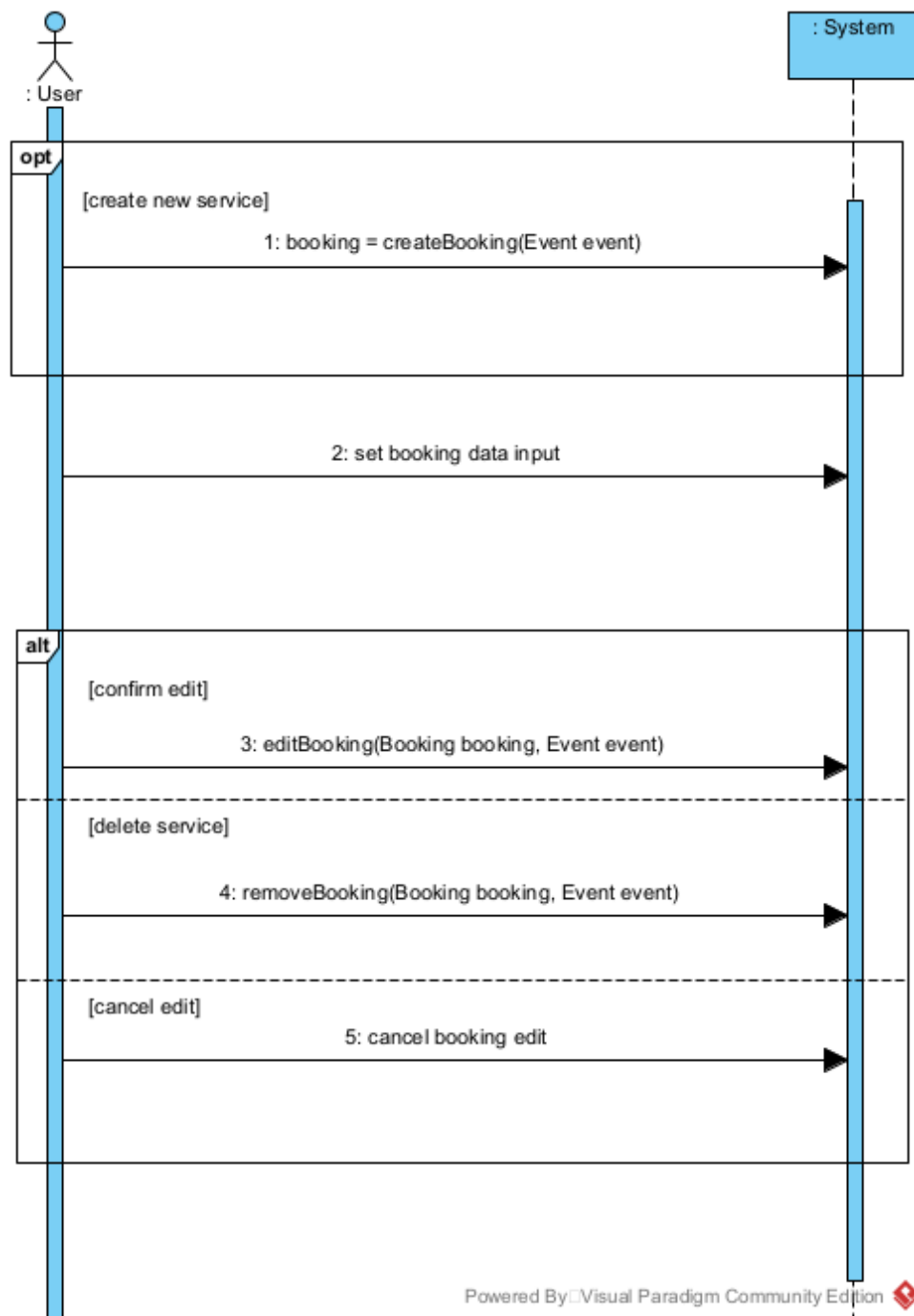
Operation: removes a service that is sold by a business and booked by users for their events

Cross Reference: Manage Service

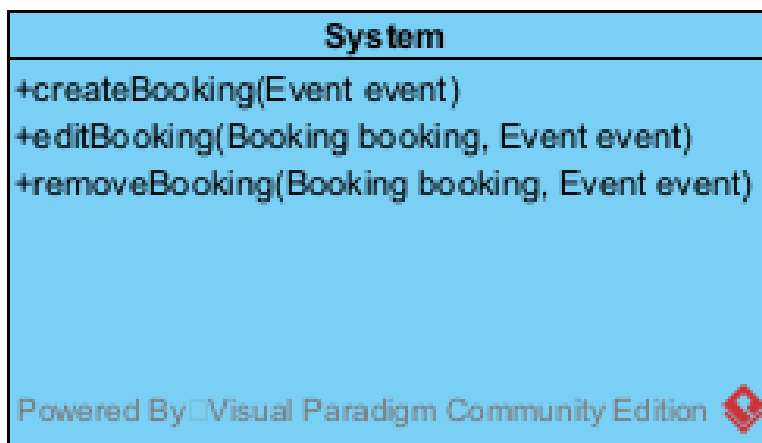
Pre-conditions: the user wants to remove a pre-existing service associated with a business to which they have access.

Post-condition: a pre-existing service is removed from those offered by a business

UC Manage Booking



Powered By Visual Paradigm Community Edition

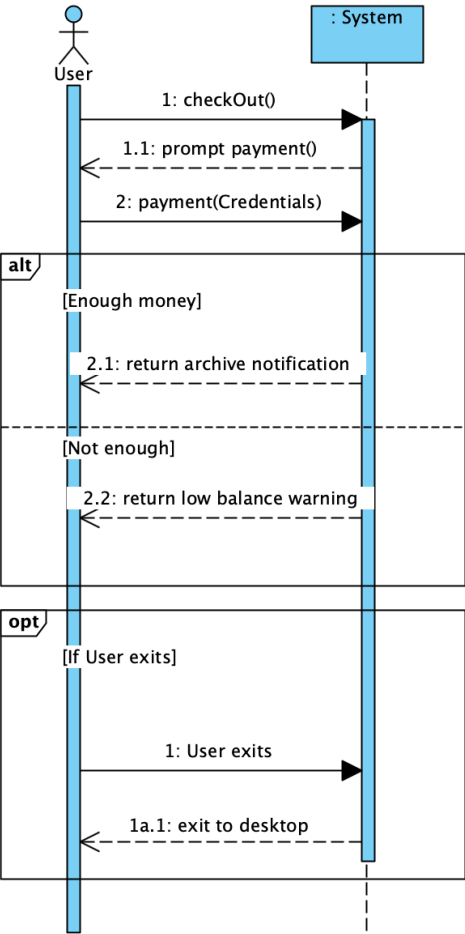


Contract: createBooking
Operation: creates a booking
Cross Reference: Manage Booking
Pre-conditions: User wants to make a new booking
Post-condition: booking is created with some business offering some service

Contract: editBooking
Operation: edits a booking
Cross Reference: Manage Booking
Pre-conditions: User wants to edit a pre existing booking
Post-condition: booking is changed buisness is notified of change

Contract: removeBooking
Operation: remove a booking
Cross Reference: Manage Booking
Pre-conditions: User wants to make a new booking
Post-condition: booking is created

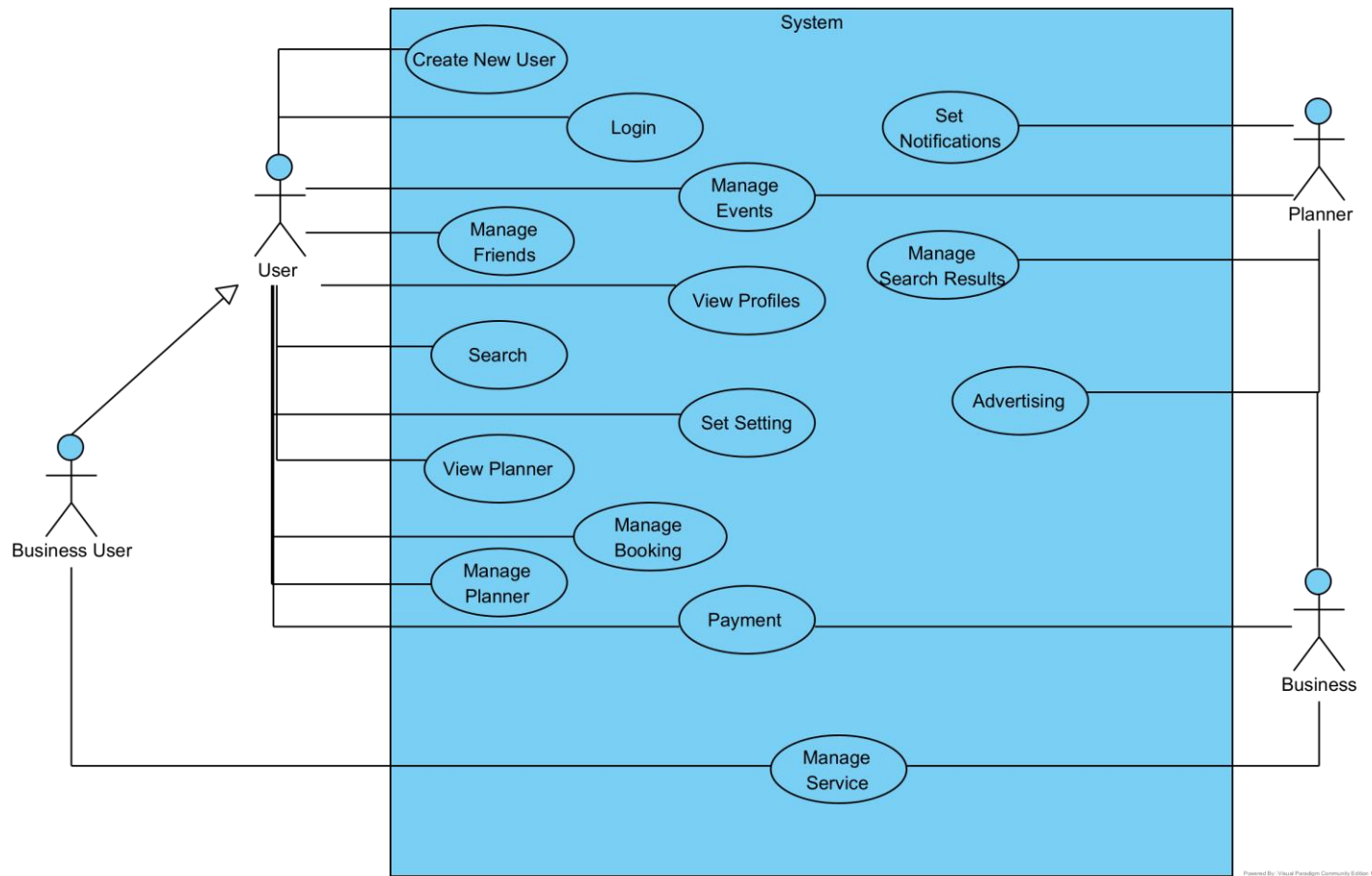
UC Payment



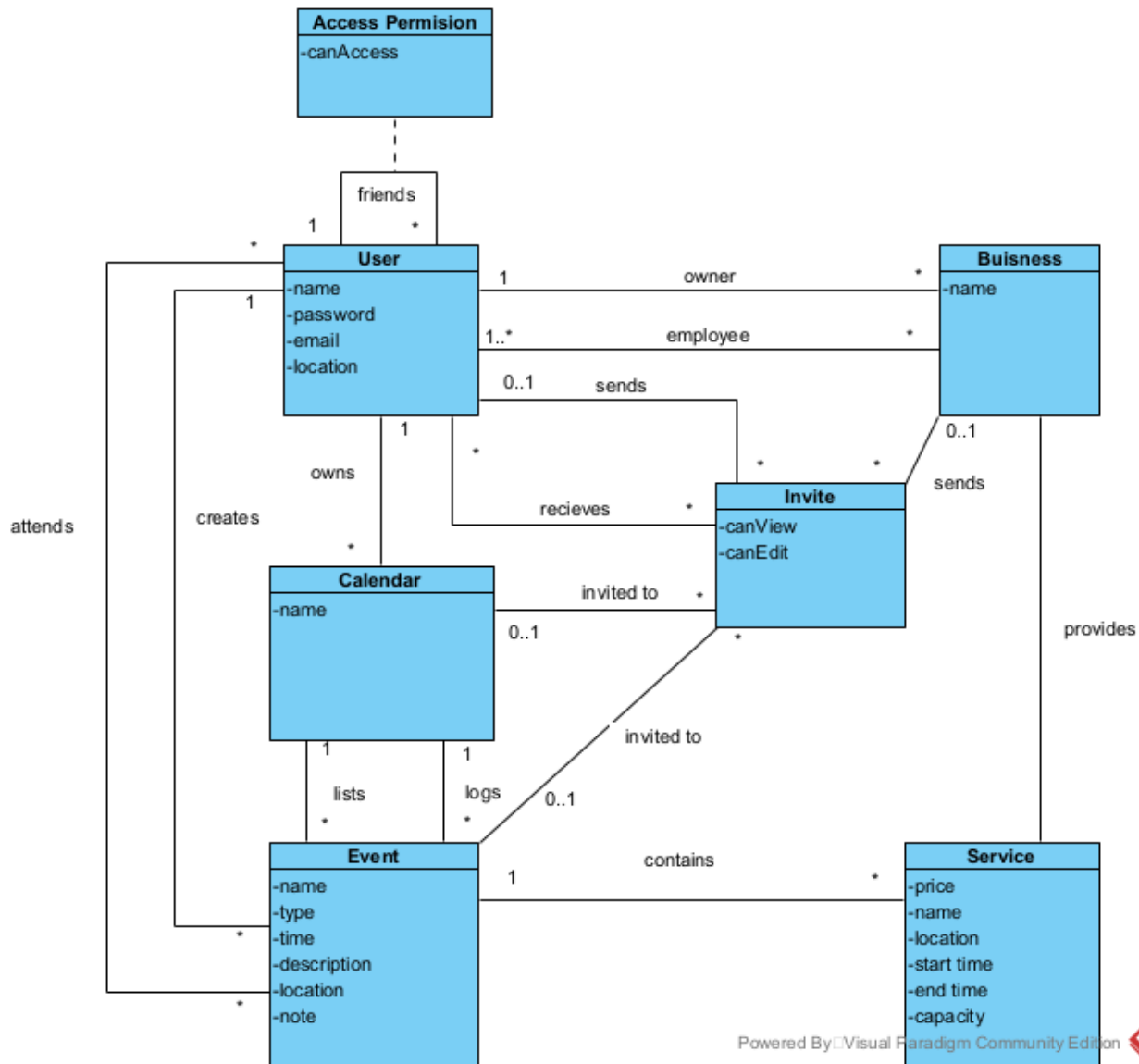
Payment
+checkout() +payment(Credentials)

Contract: Payment
Operation: Allows User to pay total Cross Reference: Manage service Pre-conditions: User wants to pay total Post-condition: Total is paid

Use Case Diagram



Domain Model



Wire Frame

LOGIN X

username

password

LOGIN NEW USER

MOSES X

PLANNER

Search

+ event

+ business

+ Invite

+ Friends

Business

X

+

Business

View servicesAdd employee

X

.....

.....

Event

X

Name

type

time

location

Note...

Services

+

Service

✓

Services

X

+

service

X

...

~

X

...

~

X

...

~

X

...

~

...

~

...

~

...

Service

X

Price

name

Location

start time

end time

Capacity

✓

Gantt Diagram

Untitled Gantt Project

Aug 22, 2022

<http://>

Project manager

Project dates

Aug 22, 2022 - Dec 30, 2022

Completion

0%

Tasks

28

Resources

4

Tasks

3

Name	Begin date	End date
presentation and reporting	12/29/22	12/29/22

Tasks

2

Name	Begin date	End date
Analysis	8/22/22	10/18/22
project vision	8/22/22	8/25/22
team assembly	8/26/22	8/31/22
infrastructure initialization	9/1/22	9/6/22
requirements analysis	9/7/22	9/9/22
use cases	9/12/22	9/14/22
traceability matrix	9/15/22	9/19/22
system sequence diagrams	9/20/22	9/26/22
system operations	9/27/22	9/30/22
wireframes	10/3/22	10/5/22
domain model	10/6/22	10/11/22
presentation and reporting	10/12/22	10/18/22
Design	10/27/22	12/6/22
design model	10/27/22	11/1/22
sequence diagrams	11/2/22	11/7/22
package diagrams	11/8/22	11/10/22
GRAPS patterns	11/11/22	11/15/22
test coverage	11/16/22	11/21/22
prototyping	11/22/22	11/29/22
presentation and reporting	11/30/22	12/6/22
Implementation	12/7/22	12/29/22
backend	12/7/22	12/9/22
user interface	12/12/22	12/15/22
user input validation	12/16/22	12/20/22
Import/export	12/21/22	12/22/22
unit-testing	12/23/22	12/26/22
documentation	12/27/22	12/28/22

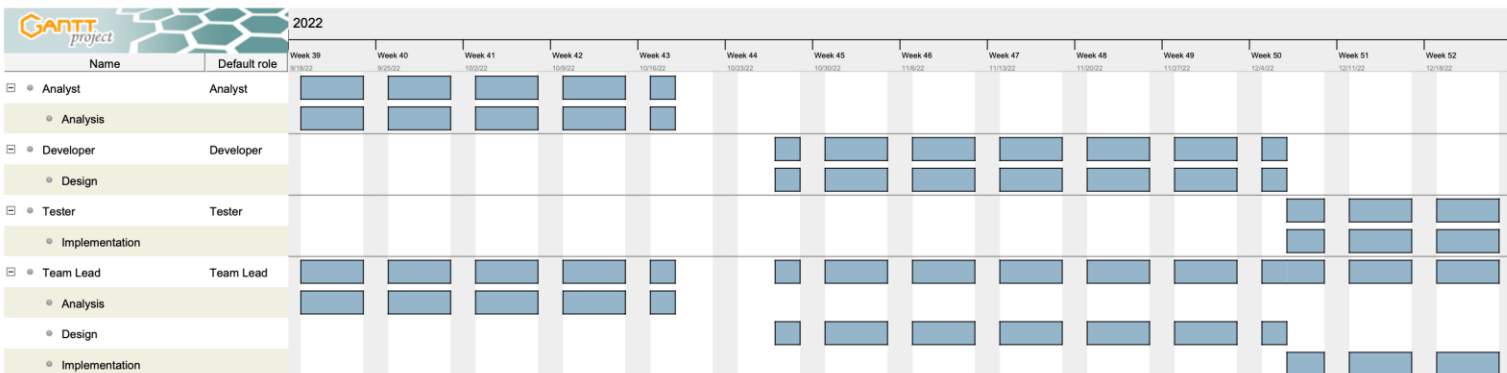
4

5

6



6



Timecard

GitHub

Benjamin: 22 hours

- Domain Diagram
- SSD
- Fully Dressed Use Case
- Wire frame
- Glossary
- Group Avatar

Bryce: 7 hours

- Requirements
- Use Case
- SSD
- Fully Dressed Use Case

Jason: 23 hours

- **System Operations**
- **Traceability matrix**
- **Fully Dressed Use Case**
- **Requirements**
- **Wire frame**
- **Project Planning**
- **Project Time Management**
- **SSD**
- **Fully Dressed Use Case**
- **Trello**
- **Project vision**
- **Use Case Diagram**

Yutai: 9 hours

- Gantt Diagram
- Use Case
- SSD
- Fully Dressed Use Case

Yi: 21 hours

- Website
- PPT
- Use Case
- SSD
- Fully Dressed Use Case
- Trello