

Demo Link: <https://www.youtube.com/watch?v=SYEPf38joQk>

GitHub Link

<https://github.com/jeremymeadows/Mentality>

Work Distribution, Point Distribution, Time Spent

Micah Dadson- 6 sequence diagrams, GRASP, UML class diagram, Package diagram, Testing Plan, Chart.java, Feed.java, MenuBar.java, Post.java, PostToWall.java, Search.java, StarRater.java, Dashboard.java, HappinessGraph.java, Report.java, CronScheduler.java, ReportMaker.java, applicationContext.xml,

Points: 8.5/6

Time Spent: 30 hours

Jeremy Meadows- 3 sequence diagrams, Calendar.java, Database.java, Password.java, User.java, Registration.java, CustomUtilities.java, SpringUtilities.java, CustomUtilities.java, Mentality.java, Runner.java, logo.png, logo.svg

Points: 8.5/6

Time Spent: 25 hours

Shivani Bobbala- 3 sequence diagrams, Mood.java, DiaryFrame.java

Points: 7/6

Time Spent: 10 hours

Joel Futagawa- 3 sequence diagrams

Points: 6/6

Time Spent: 5 hours

Shunting Chen- 3 sequence diagrams

Points: 6/6

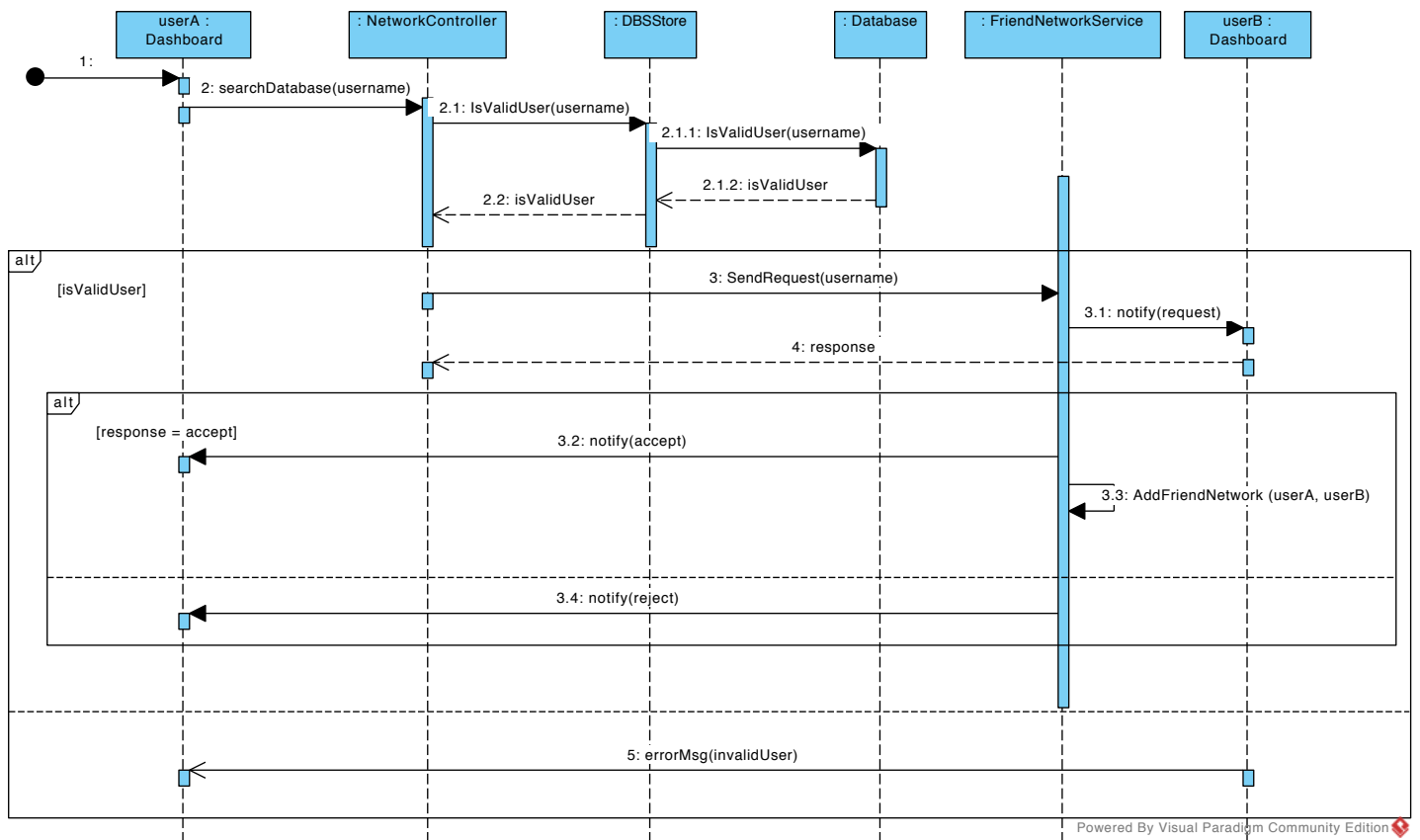
Time Spent: 5 hours

Francis Ning- n/a

Points: 0/6

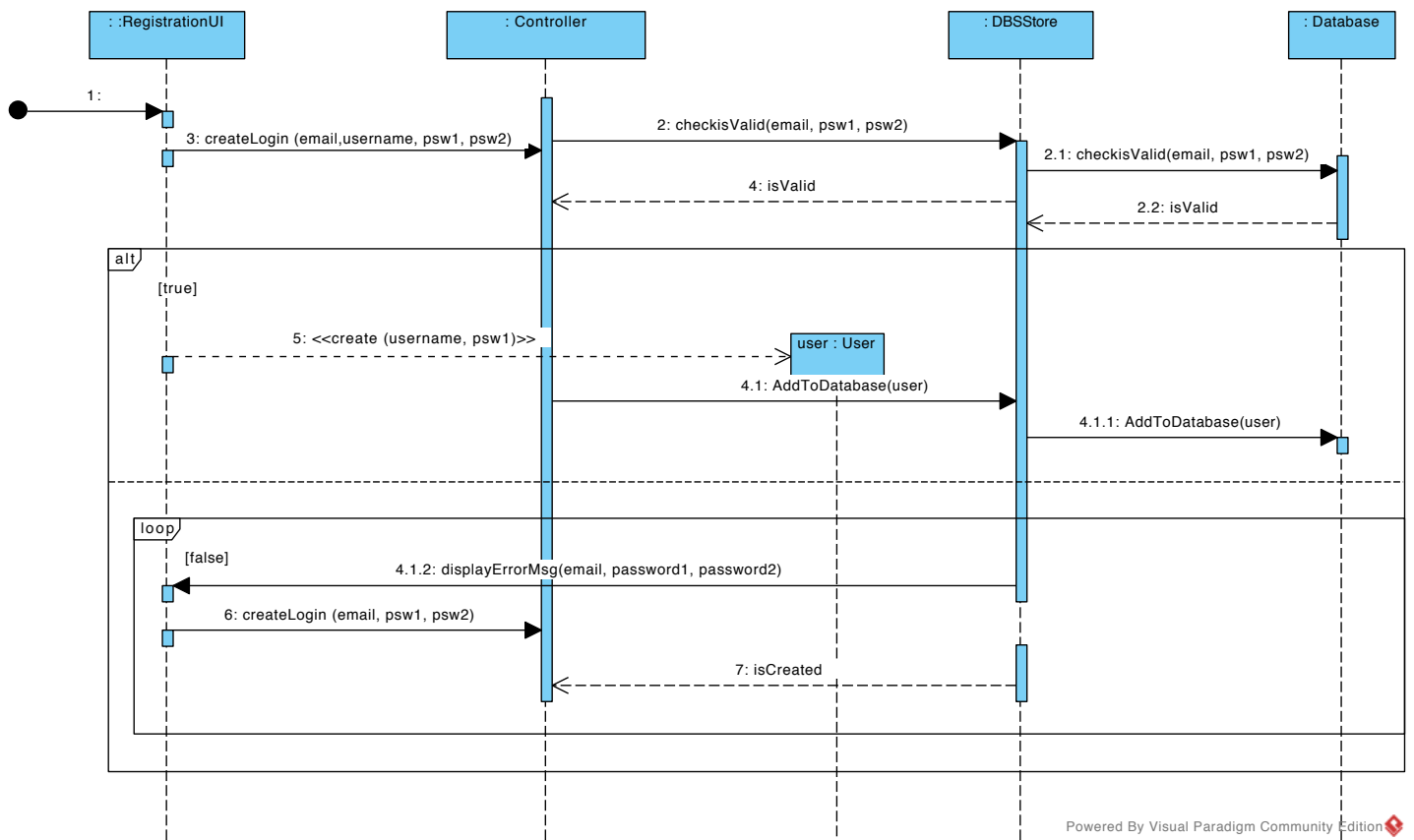
Time Spent: 5 hours

(Sorry we do not have a Gantt diagram, the software would not work on my computer and I did not have access to a different computer)



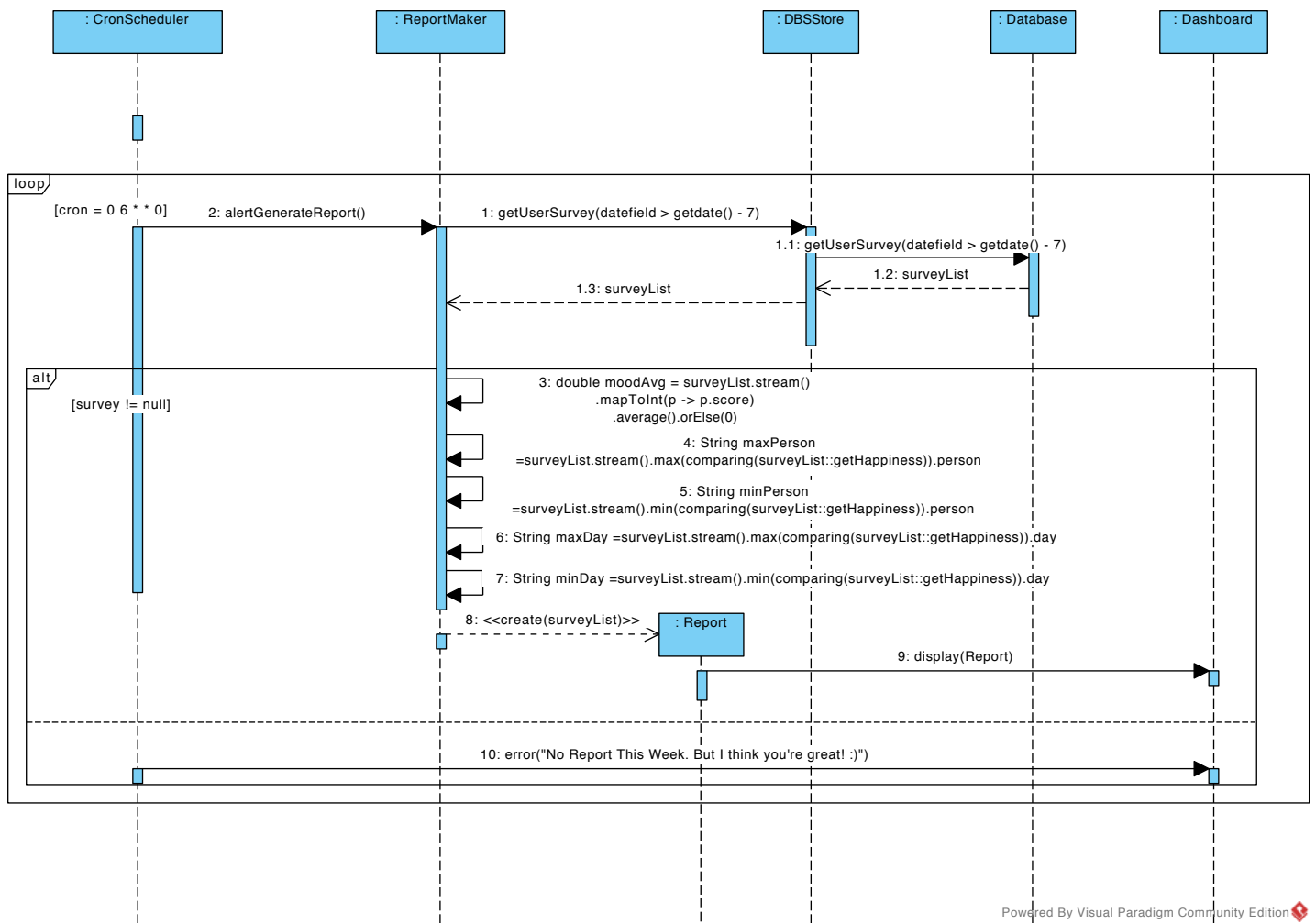
Add a Friend

Micah Dadson



Register an Account

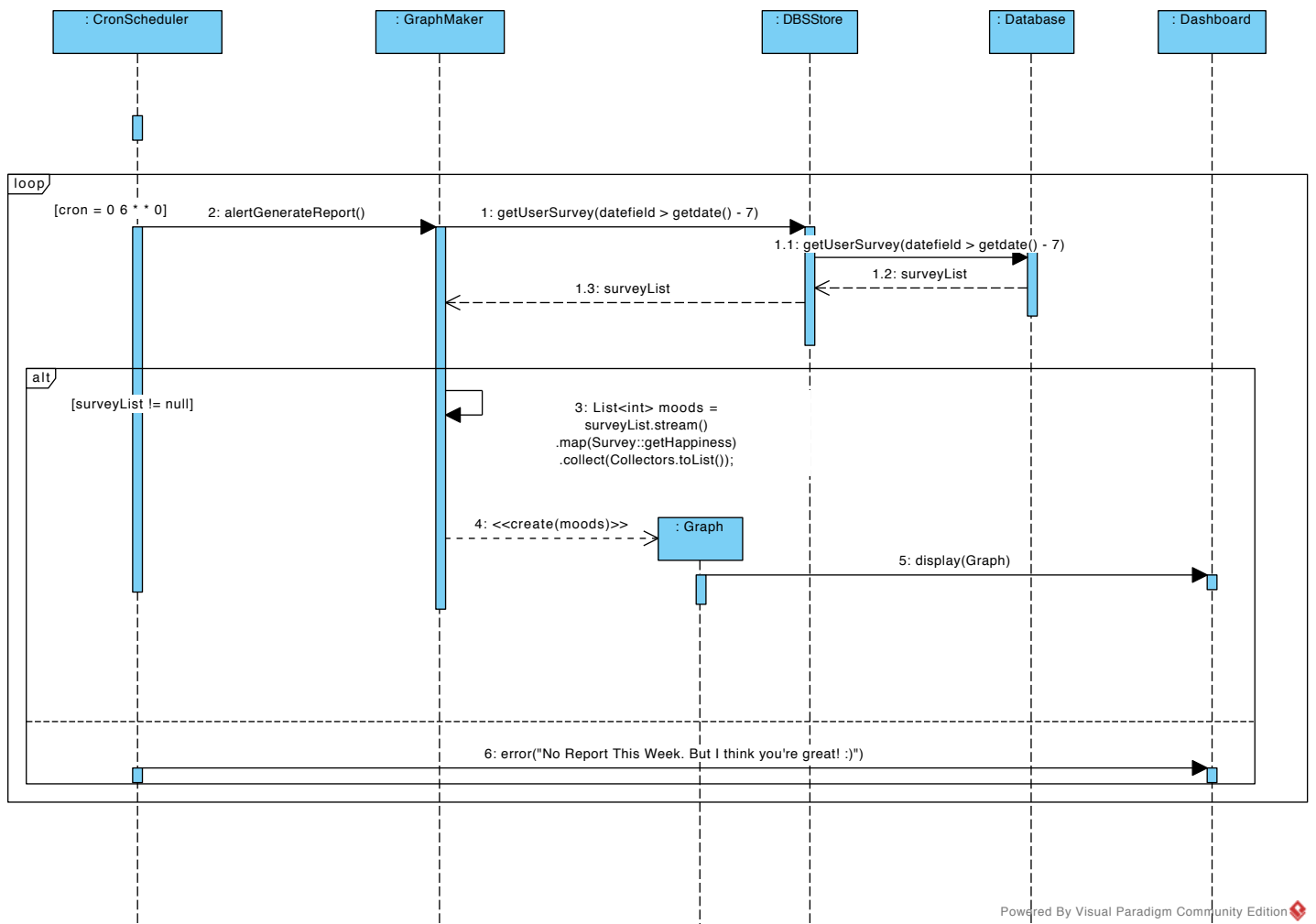
Micah Dadson



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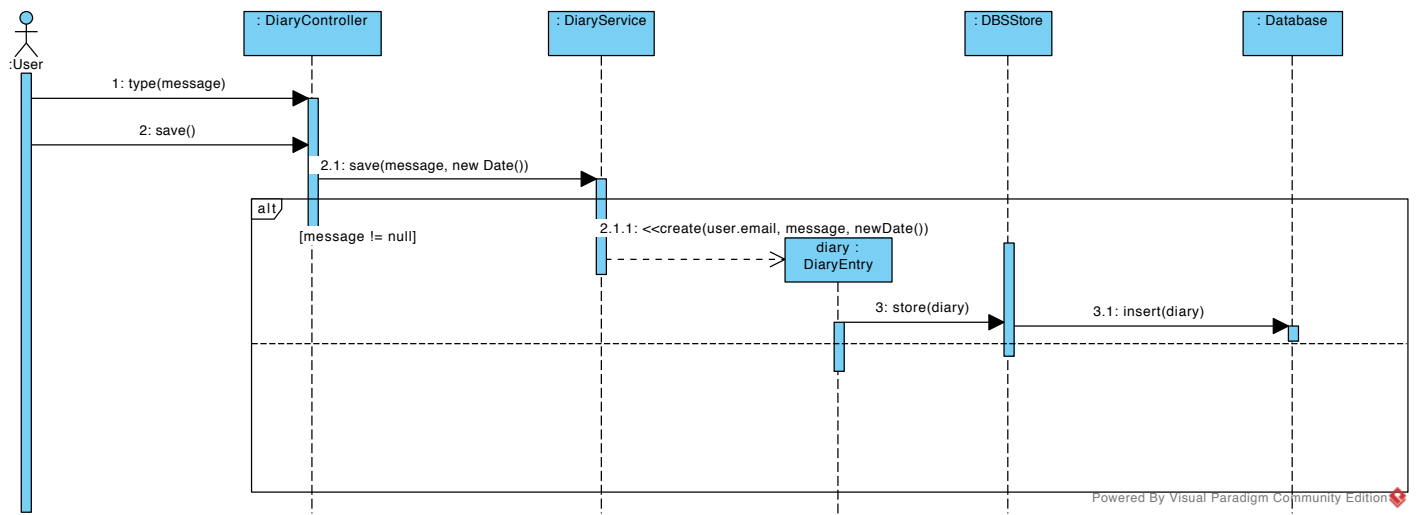
Generate a Report

Micah Dadson



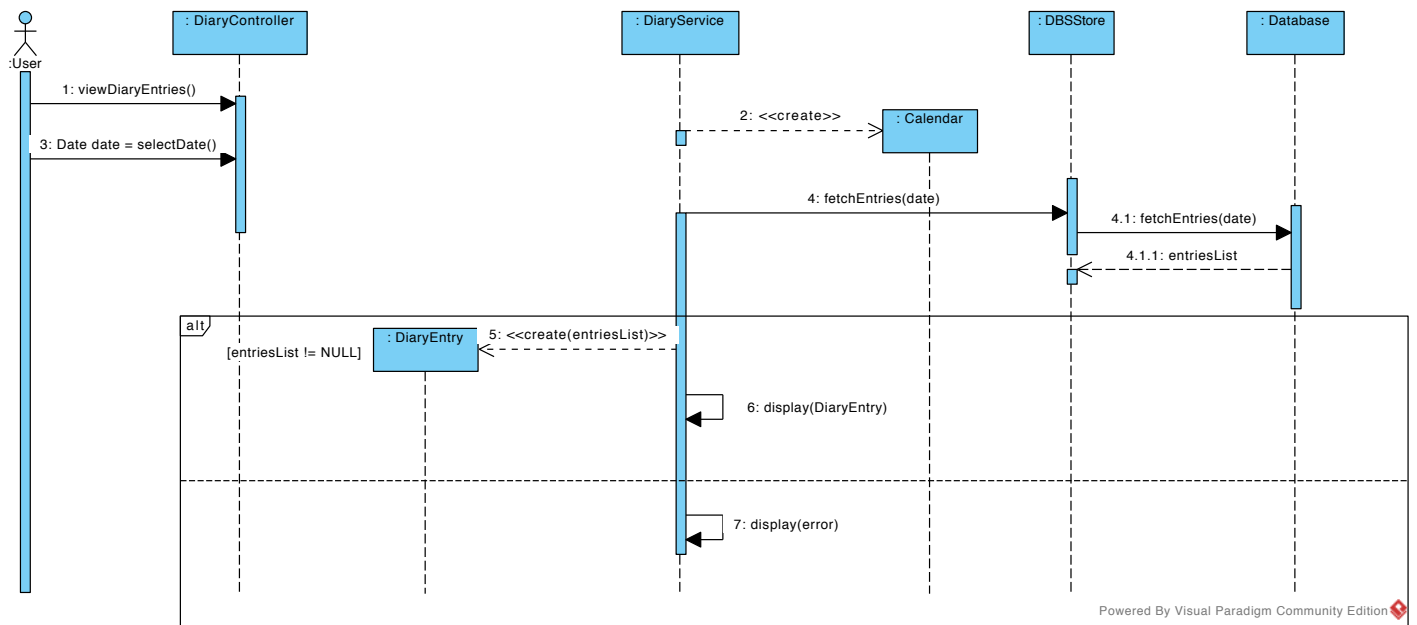
Generate a Happiness Graph

Micah Dadson



Complete a Diary Entry

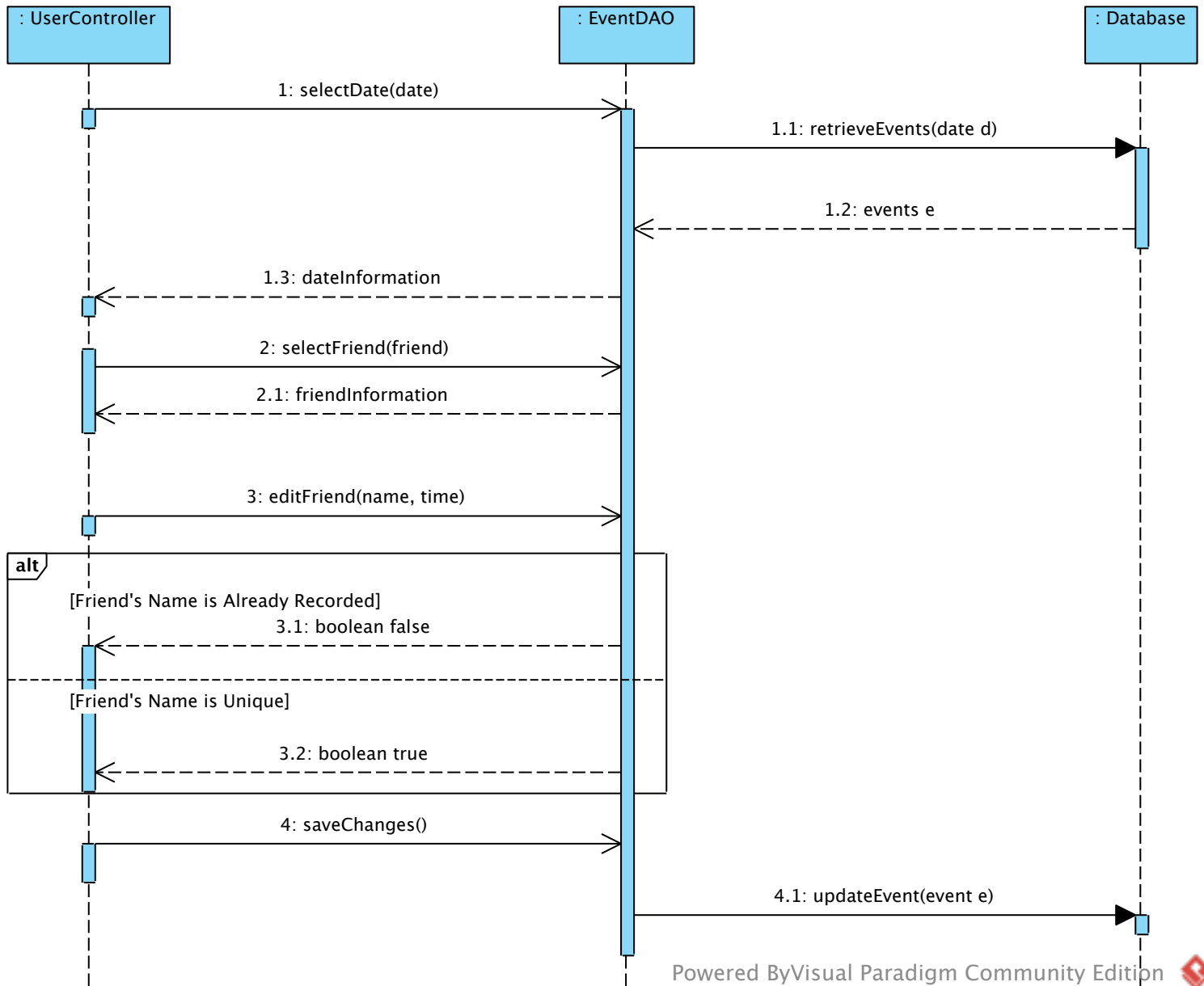
Micah Dadson



Look Up a Diary Entry

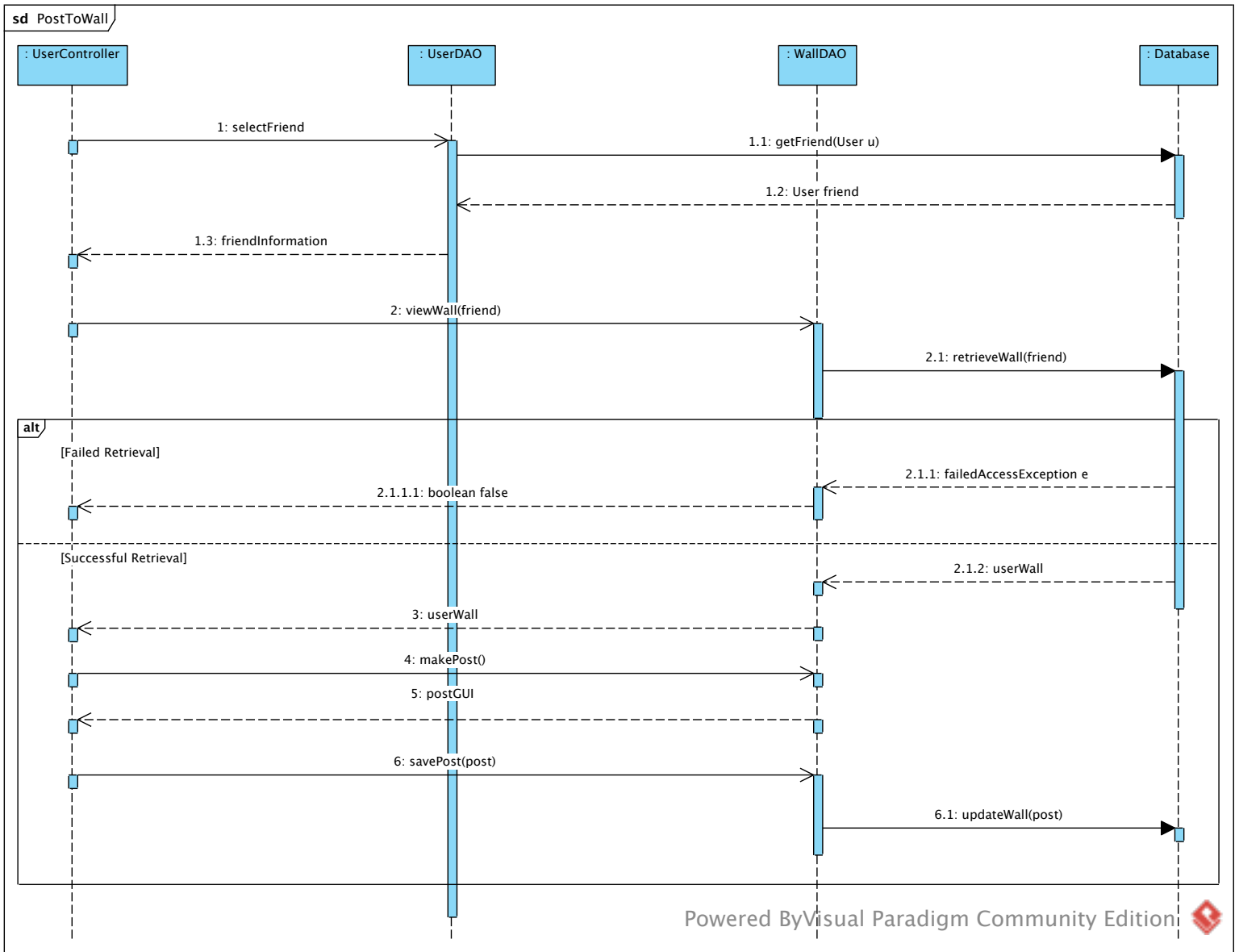
Micah Dadson

sd EditFriend

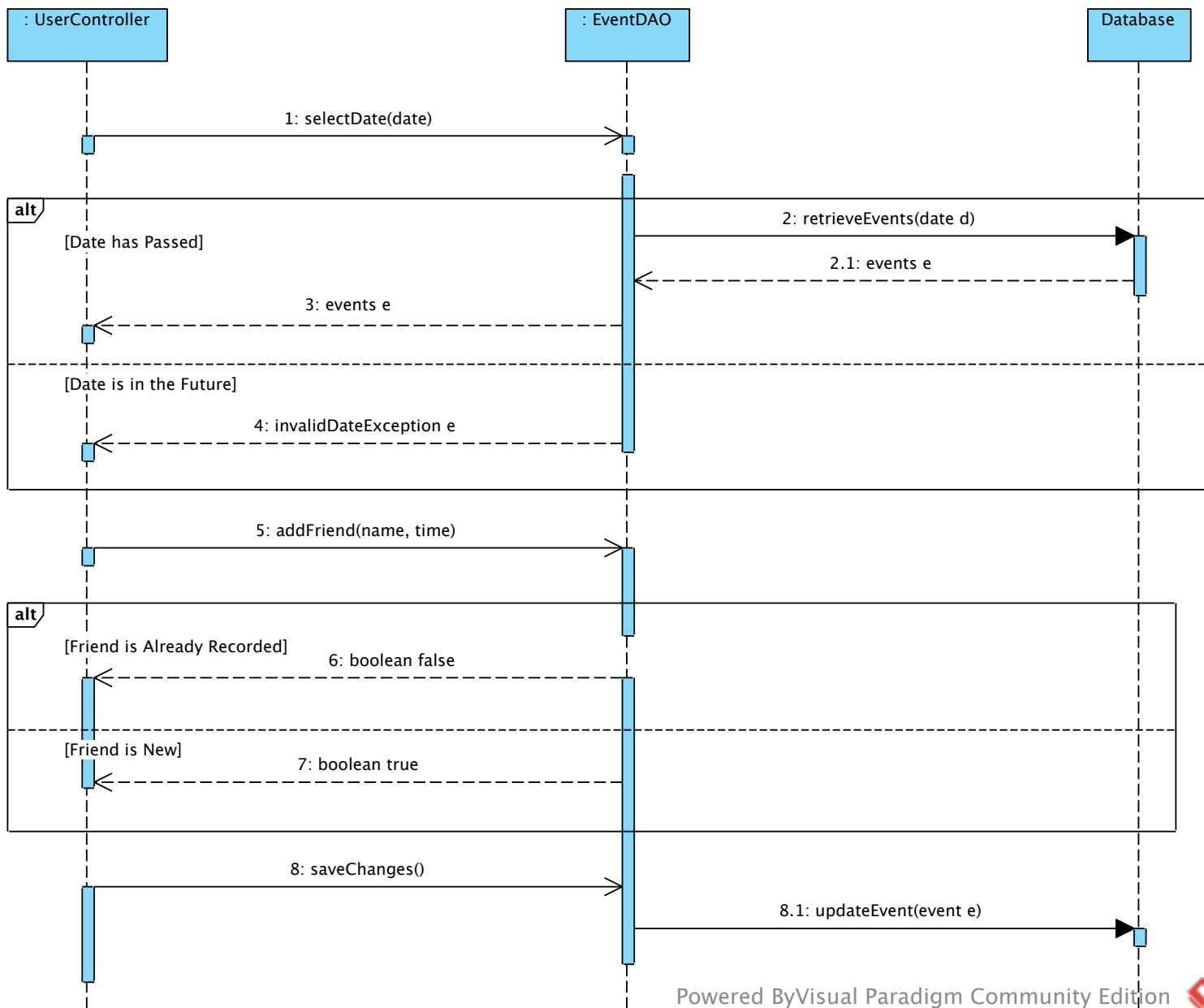


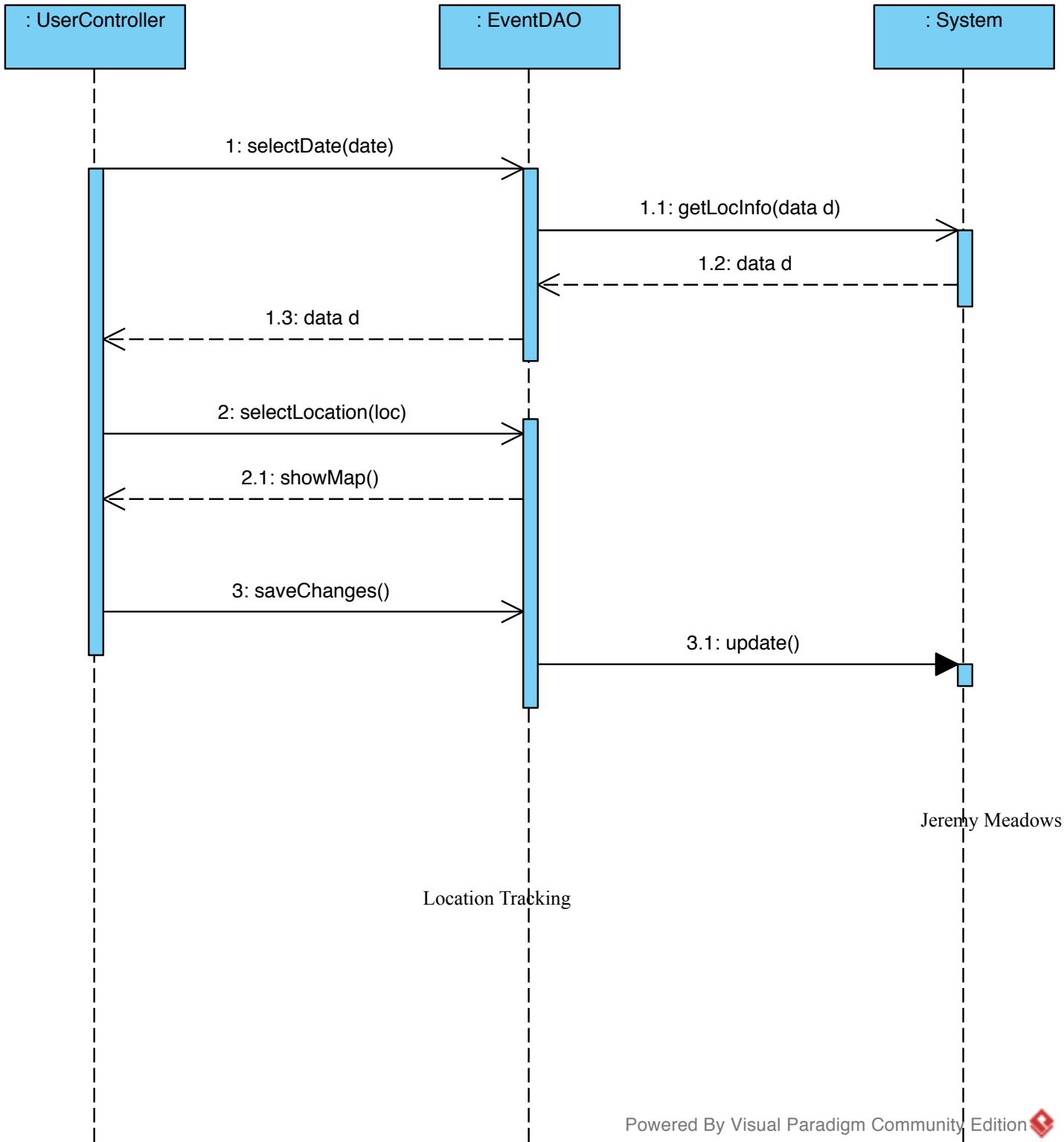
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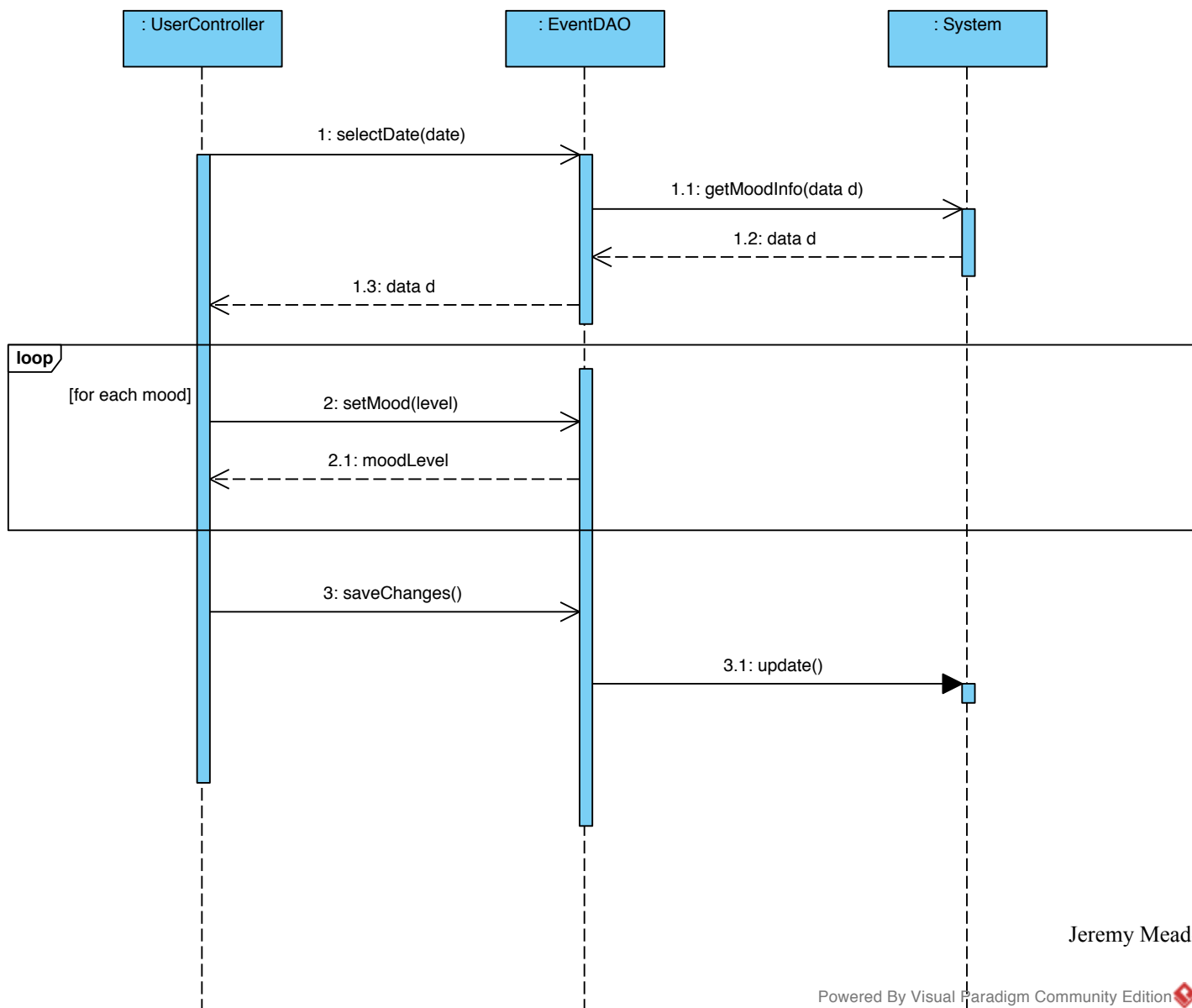




sd RecordFriend



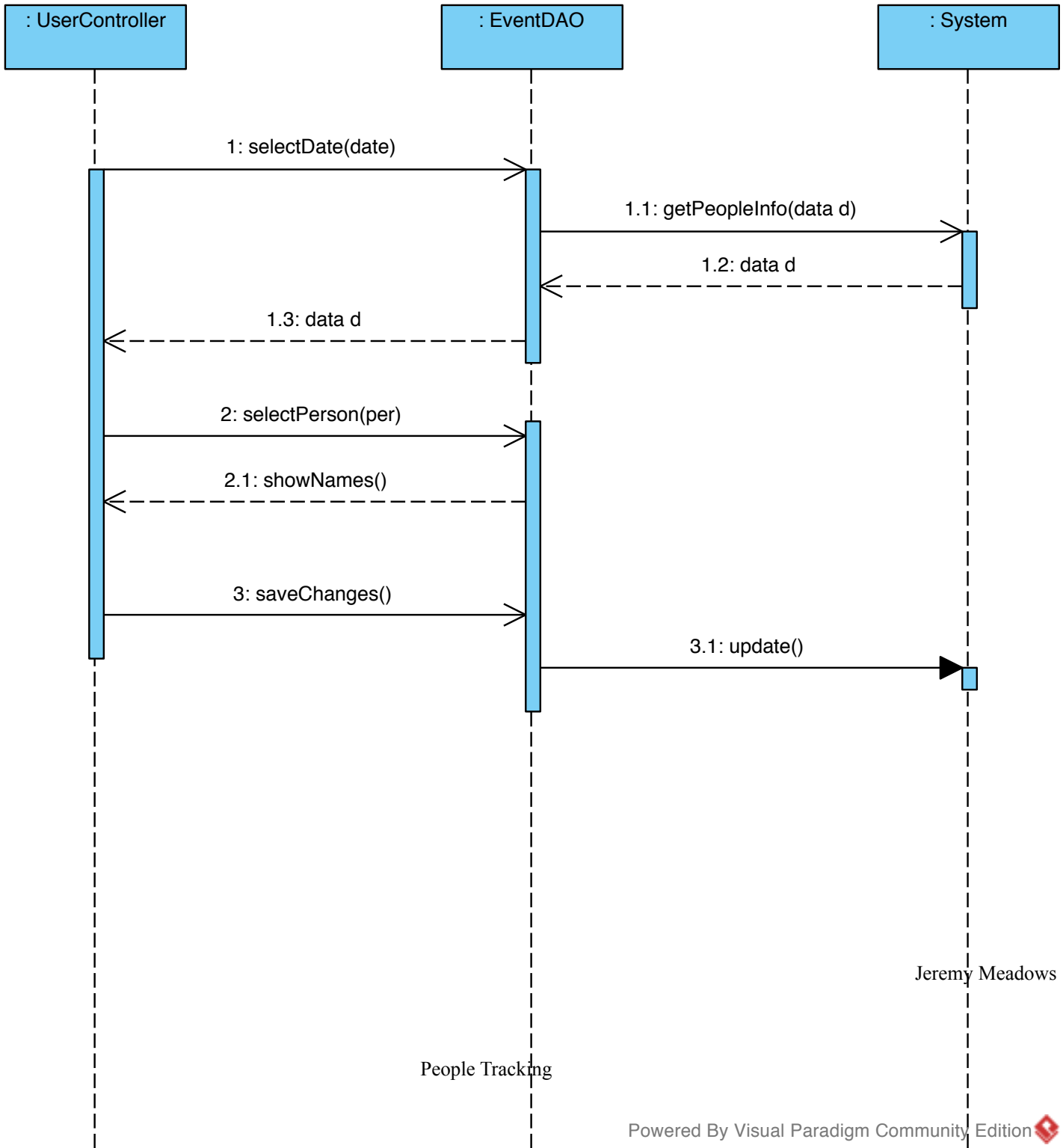




Mood Tracking

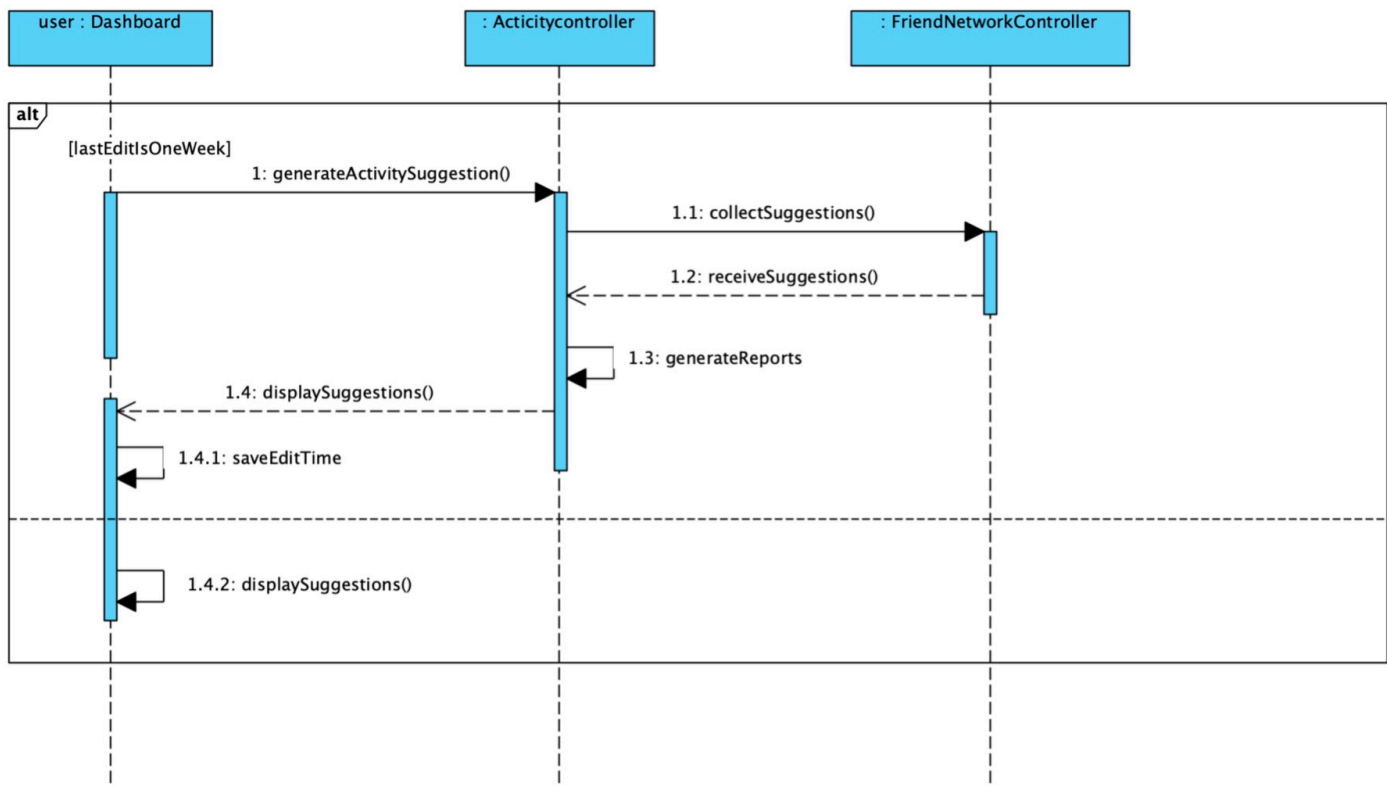
Jeremy Meadows

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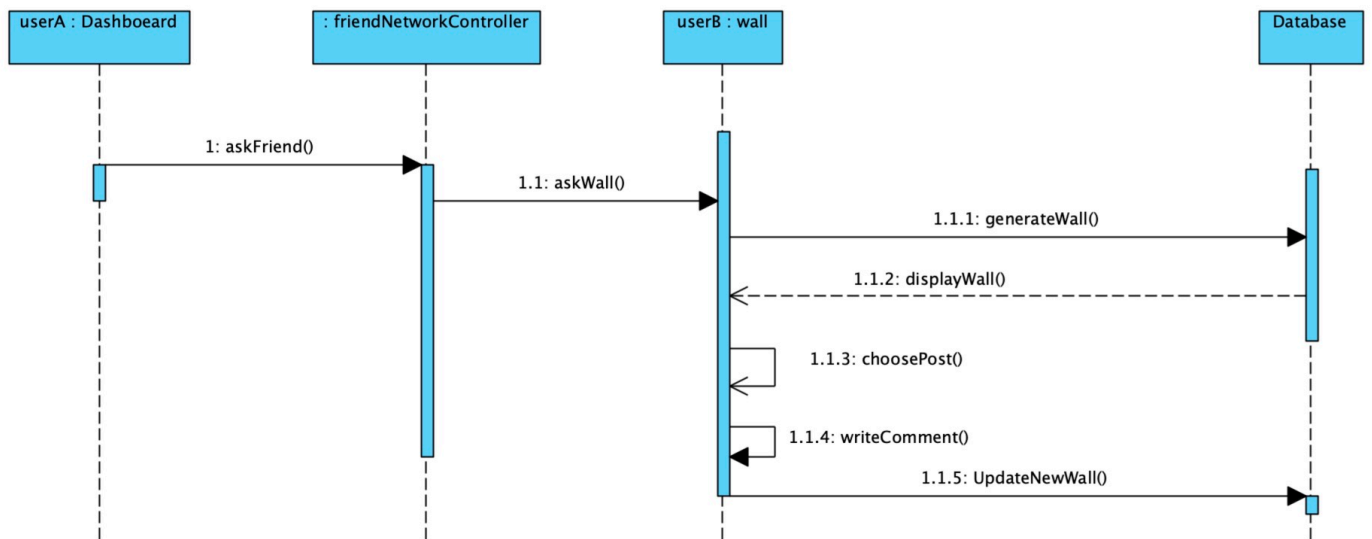
Jeremy Meadows

People Tracking



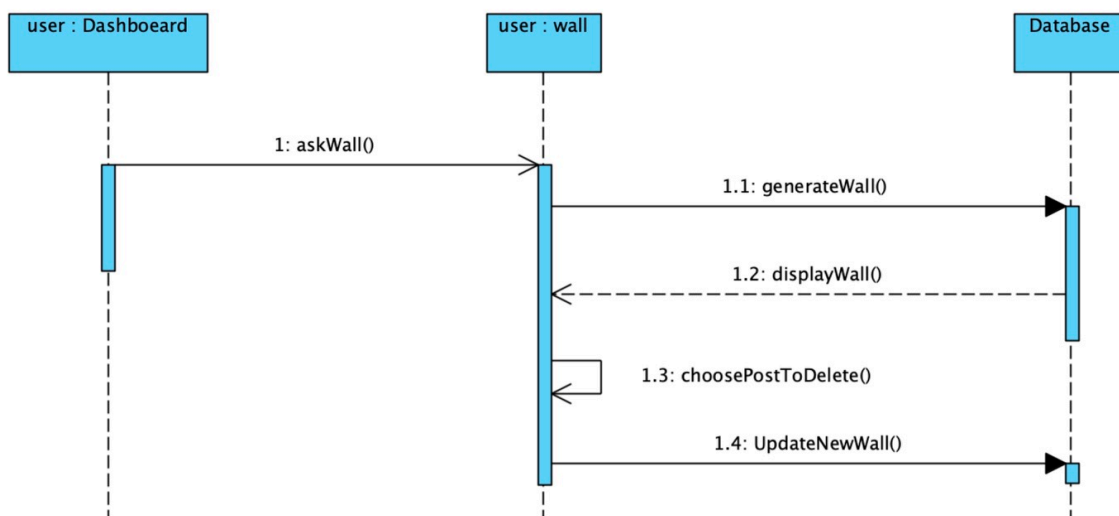
Activity Suggestion

Shunting Chen



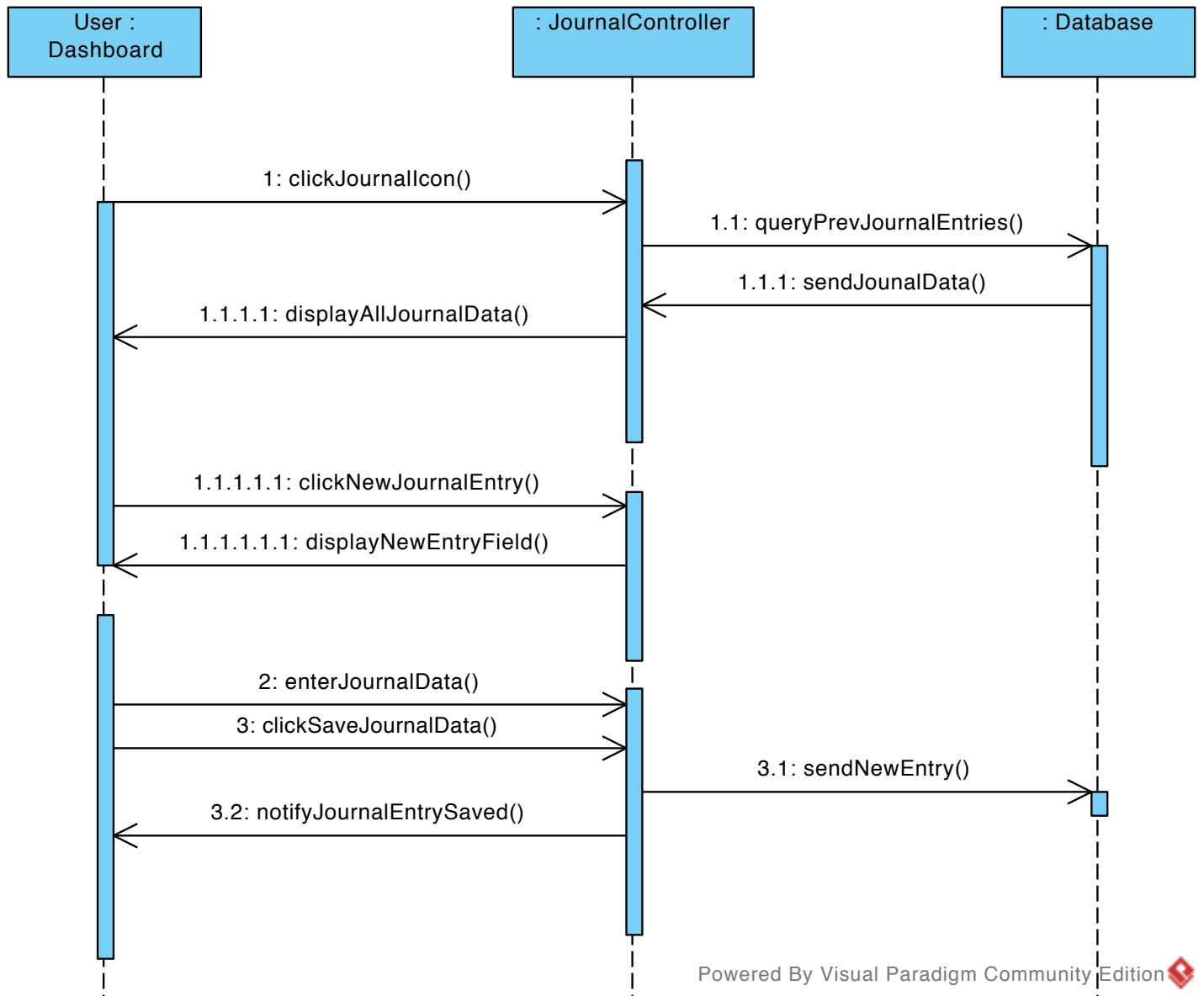
Comment Post

Shunting Chen

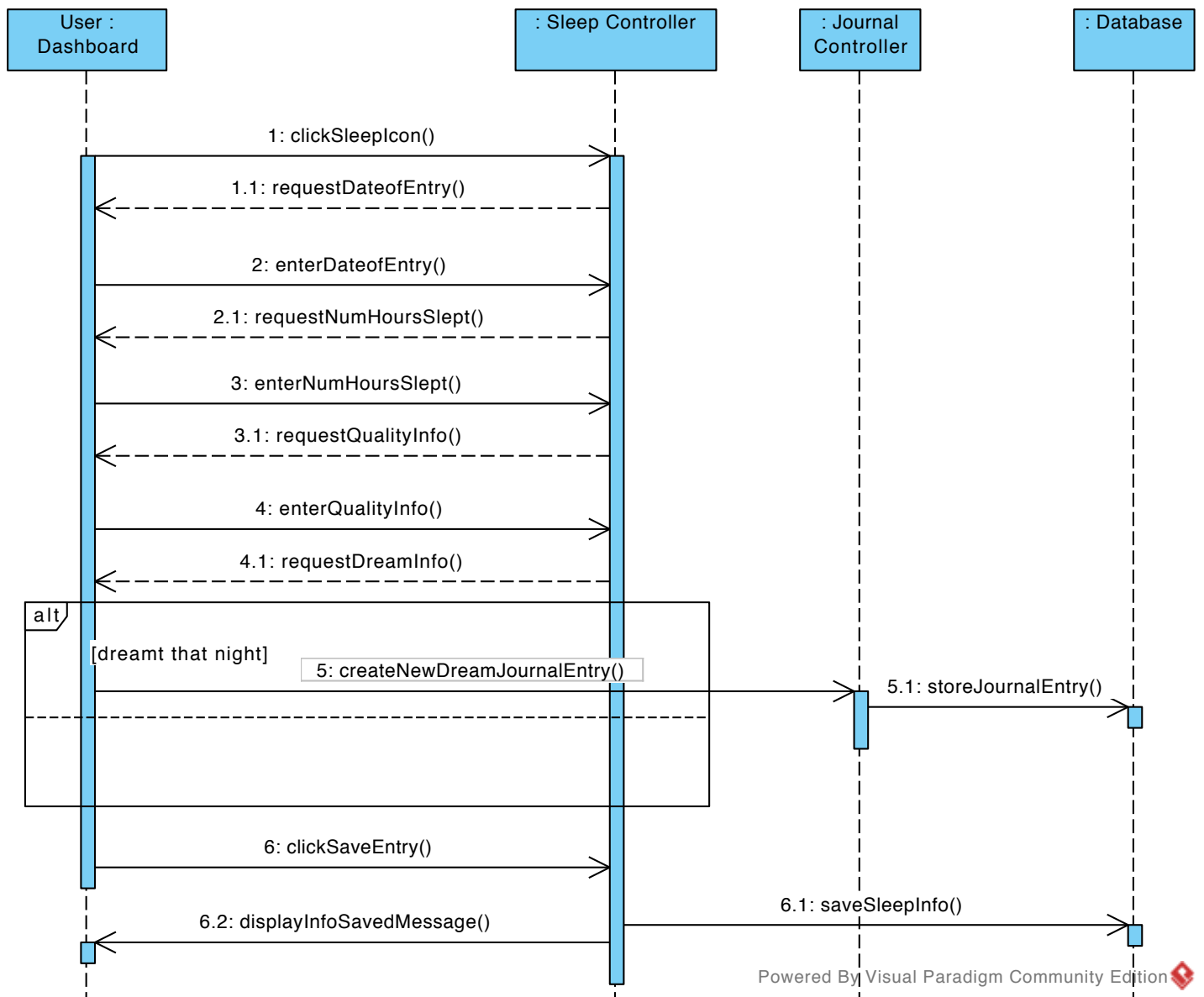


Delete Post

Shunting Chen

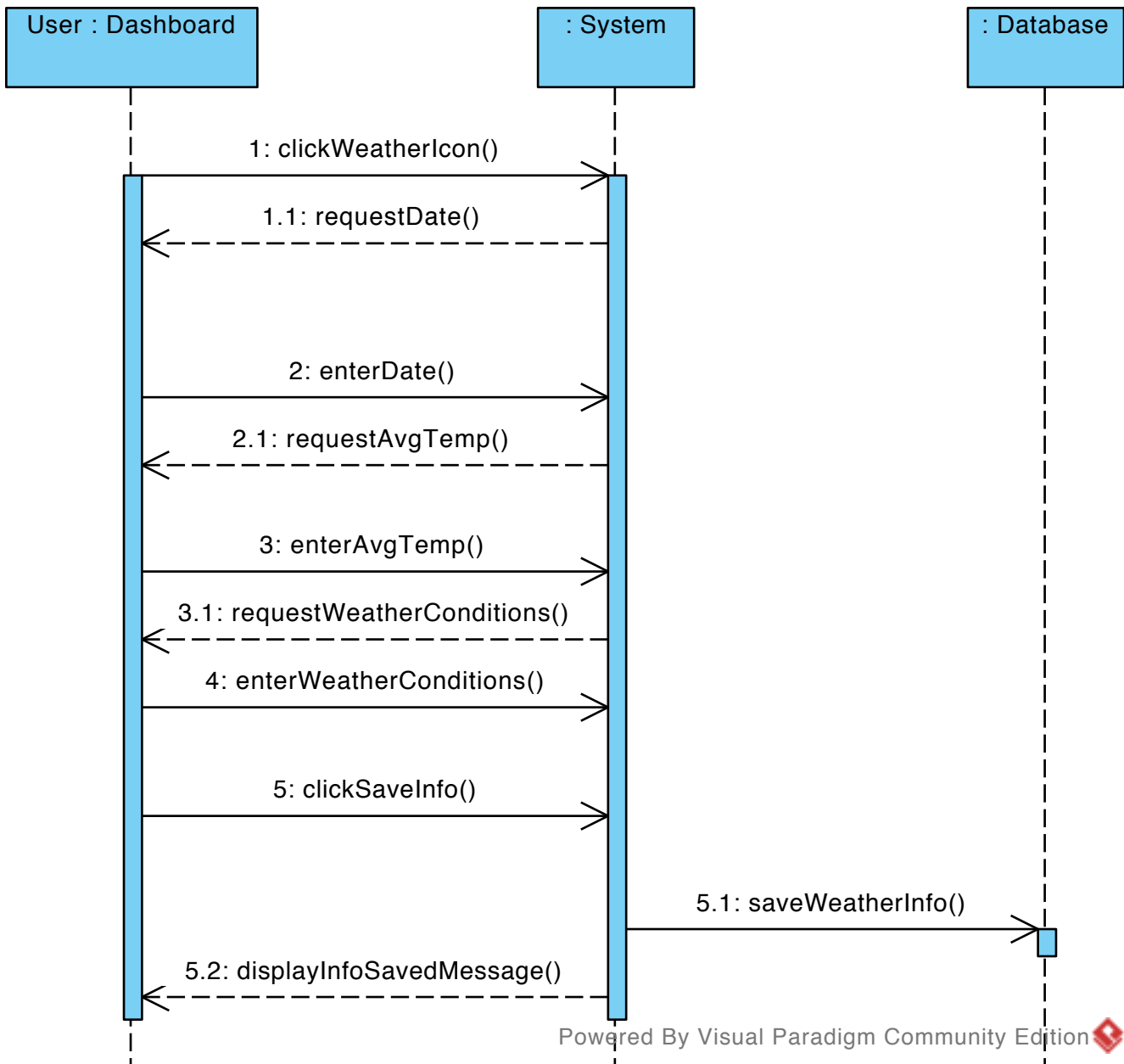


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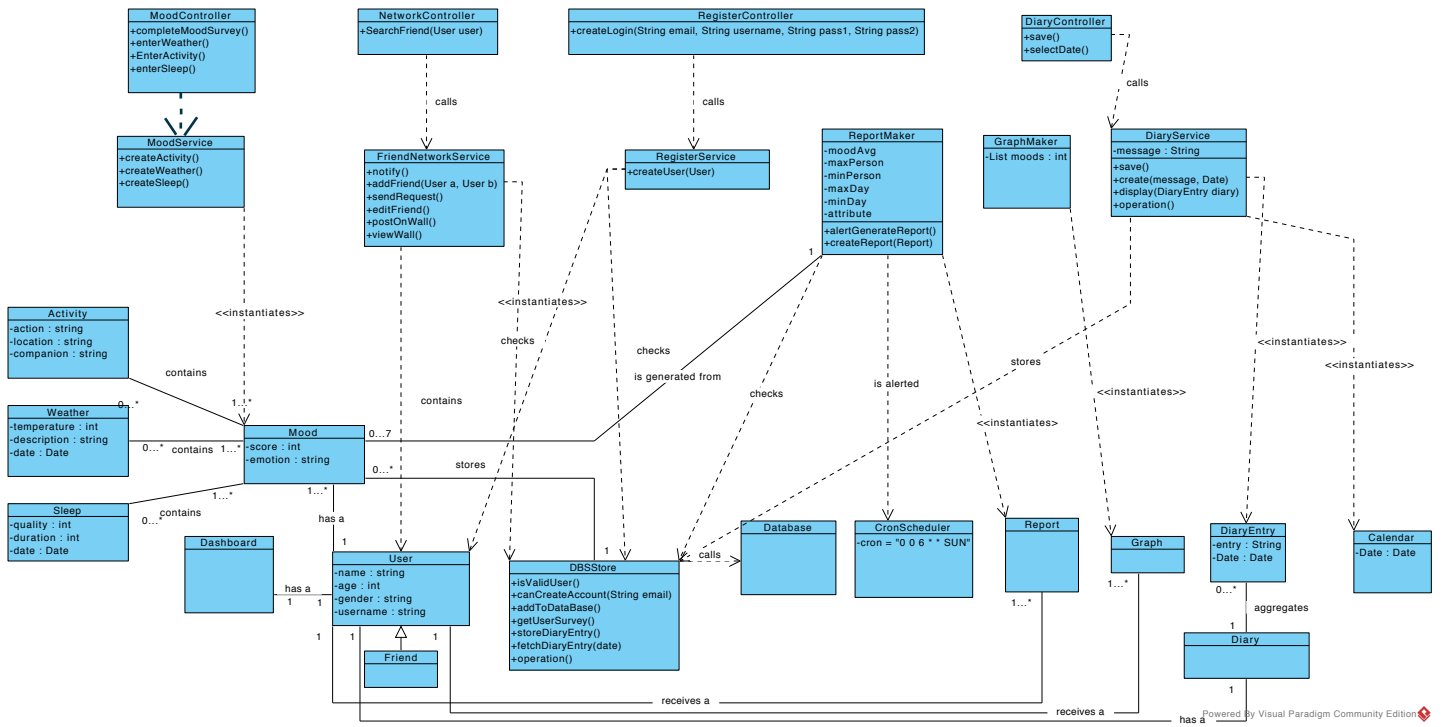
Enter Sleep Information

Shivani Bobbala



Enter Weather Information

Shivani Bobbala



Testing Plan

Registration

- Register with email already in database
 - Test passes if registration is unsuccessful
- Register with passwords that do not match
 - Test passes if registration is unsuccessful
- Register with email that is not in database and with passwords that match
 - Test passes if registration is successful and stored in database

FriendNetwork

- Add a friend not in network
 - Test passes if add is successful
- Add a friend already in network
 - Test passes if add is unsuccessful and stored in database

ReportMaker

- Make report with one or less stored mood surveys
 - Test passes if report cannot be generated
- Make report with at least two mood surveys stored
 - Test passes if report is generated

HappinessGraphMaker

- Make graph with one or less stored mood surveys
 - Test passes if report cannot be generated
- Make graph with at least two mood surveys stored
 - Test passes if report is generated

DiaryService

- Make diary entry with no user input
 - Test passes if diary entry is not created and stored in database
- Make diary entry with user input
 - Test passes if diary entry is created and stored in database
- Look up diary entry for date with null diary entries
 - Test passes if error message is generated
- Look up diary entry for date with at least one diary entries
 - Test passes if all diary entries are presented

MoodSurvey

- If any field is left empty
 - Test passes if validation check prevents user from submitting survey
- If all fields are complete
 - Test passes if serialized object is stored in the database

Behavioral Suggestions

- If user does not have friends
 - Test passes if user receives suggestions from robot
- User has friends
 - Test passes if user is recommend the activities from his/her friend with the greatest average mood

WeatherSurvey

- If temperature is not entered
 - Test passes if validation check prevents user from submitting survey
- If temperature is entered
 - Test passes if the serialized object is stored in the database

SleepSurvey

- If duration is not entered
 - Test passes if validation check prevents user from submitting survey
- If duration is entered
 - Test passes if the serialized object is stored in the database

ActivitySurvey

- If description is not entered
 - Test passes if validation check prevents user from submitting survey
- If description is entered
 - Test passes if the serialized object is stored in the database

Cron Scheduler

- Test passes if system event occurs only at the specified cron

Feed

- Delete Post
 - Test passes if all conditions are meant: the post is removed from the feed, is removed from the database, and the post is replaced with a different post from the feed

- Post on Wall
 - Test passes if the post replaces a different post on the feed, and if the post is added to the database
- Comment on Post
 - Test passes if comment is saved to feed and database

GRASP

1. The Creator:

- a. HappinessGraph
 - i. constructor creates Chart because Happiness Graph aggregates Chart objects
- b. PostToWall
 - i. constructor creates Post object (by current user) because PostToWall has all the initializing data that will be passed to Post when it is created
- c. Feed
 - i. updateFeed creates Post object because Feed contains three Post objects
- d. Dashboard
 - i. constructor creates Feed because Dashboard contains a Feed object
- e. Dashboard
 - i. constructor creates PostToWall because Dashboard contains a PostToWall object
- f. Post
 - i. constructor creates StarRater because a Post object has a Star Rater object
- g. Dashboard
 - i. constructor creates Search because it contains a Search object
- h. DiaryService
 - i. create() is responsible for creating a DiaryEntry object because it has all of the necessary information to do so
- i. ReportMaker
 - i. createReport() is responsible for creating a Report object because it has all of the necessary information to do so
- j. RegistrationService
 - i. createUser() is responsible for creating a User object because it has all of the necessary information to do so
- k. MoodService
 - i. createMood() is responsible for creating a Mood object because it has all of the necessary information to do so

2. Information Expert:

- a. Chart
 - i. constructor is responsible for creating a basic graph that displays mood history for a 7 day interval because it has all of the necessary information to do so
- b. Feed

- i. updateFeed is responsible for updating the posts displayed on the wall after a new post is made because it has access to Post objects
 - c. ReportMaker
 - i. createReport creates a report based off of user data because it has all of the necessary information to do so
 - d. FriendNetworkService
 - i. addFriend() will be responsible for notifying DBSStore to add userA and userB to the same network because it will have the necessary information (email addresses) to do so
 - ii. sendRequest() will be responsible for inviting userB to be friends with userA because it has access to userB's email
 - iii. notify() is responsible for altering userB that userA wants to be friends because it has access to userB's email
- 3. Low Coupling and High Cohesion:
 - a. Though Dashboard depends on many classes, it redirects to other JPanels or opens JDialogues. As a result, a change to one of its dependencies does not grossly affect its functionality.
 - b. HappinessGraph is coupled to Chart because it contains a Chart object and displays it on its JPanel. Because it simply adds Chart to its JPanel, a change to Chart should not affect the functionality of HappinessGraph.
 - c. Likewise, Feed contains Post objects. It must access a Post object's member variables, resulting in High Coupling. Because the purpose of Feed is to update Posts displayed on a Dashboard, the high coupling was justified as it allows for high cohesion.
- 4. PureFabrication
 - a. DBSStore will have access to Database and program logic to maintain high cohesion and low coupling
- 5. Controller
 - a. RegistrationController
 - i. createLogin() is responsible for altering RegisterService after taking in user input to limit its responsibilities
 - b. NetworkController
 - i. calls searchFriend() which will alert FriendNetworkService to call DBSStore to check if the user exists. Because it only receives a username as a parameter, it has insufficient information to do anything else
 - c. UserController will handle the adding of an event. We are assigning this responsibility as a use case scenario
 - d. UserController will handle the posting to a wall. We are assigning this responsibility as a use case scenario

- e. DiaryController
 - i. save() is responsible for altering DiaryService to save the diaryEntry
- 6. Law of Demeter: Our classes only know about each other if one class must somehow manipulate another.