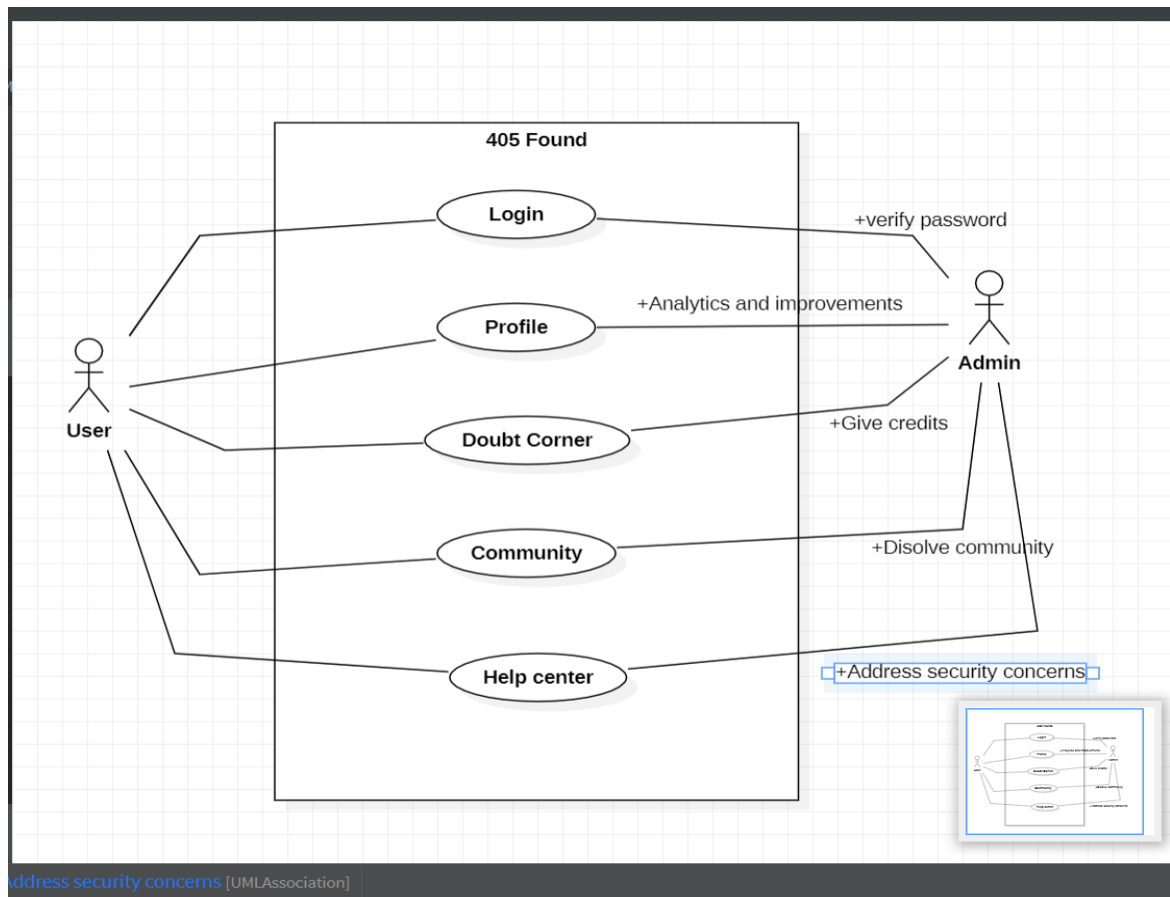


REQUIREMENT ELICITATION

1. USE CASE DIAGRAM

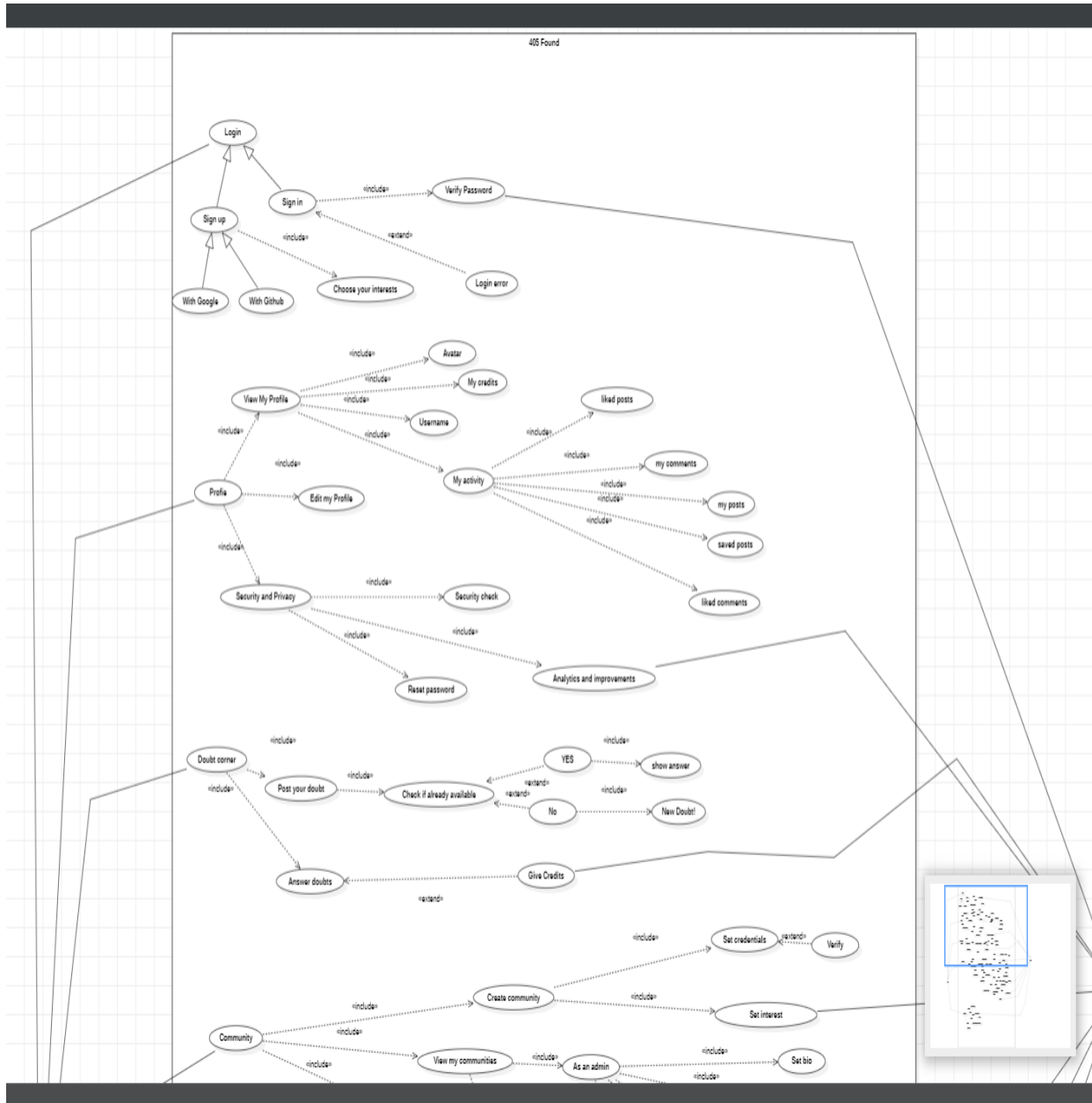
Level-0

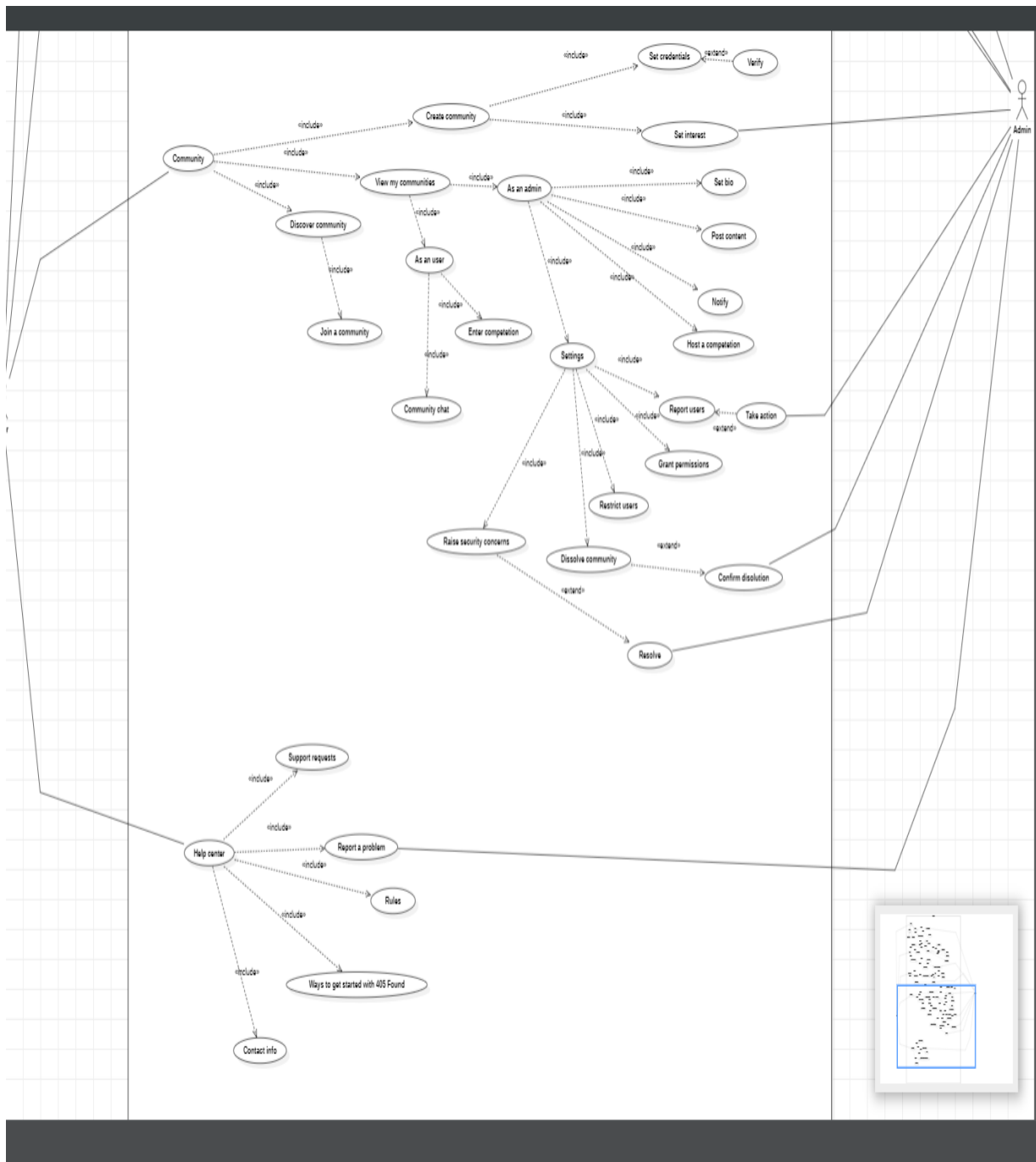


In the level-0 phase of use case modelling, we have identified 5 use cases.

1. Login : This is for the user to sign in with their credentials. The admin will verify the password to secure the application.
2. Profile: This is for the user to personify their information in their own unique way.
3. Doubt corner: This is the section of the application where the user can ask their questions and get it clarified. The admin will grant credits based on the credibility of the answers.
4. Community: This is the section where users can join and create communities!
5. Help center : Here the user can get help if they encounter any issues and our team/ admin will fix them.

Level-2





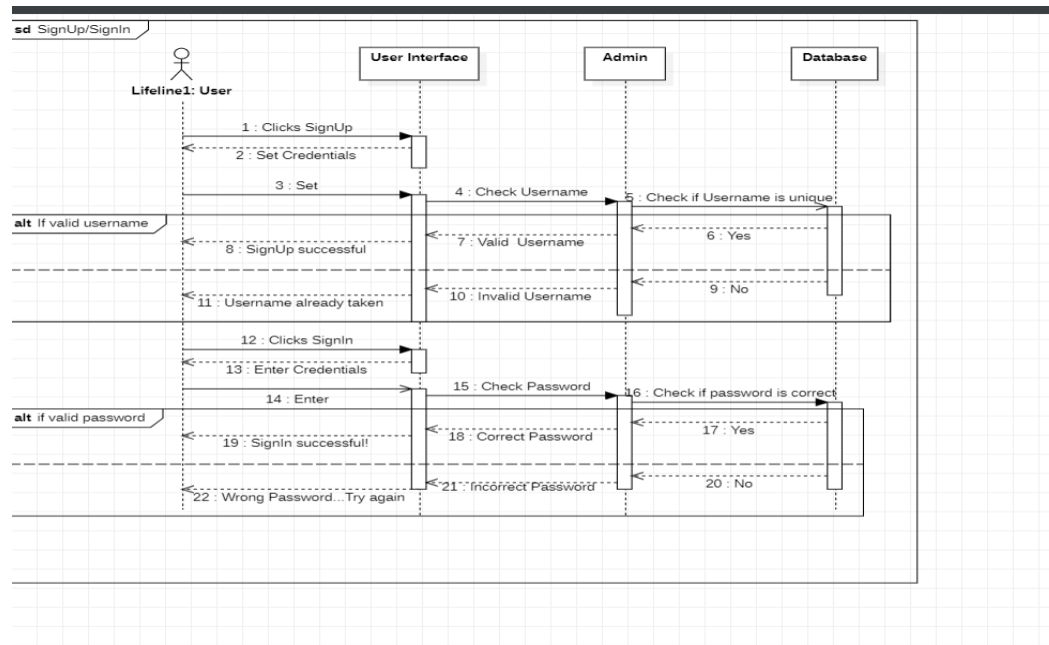
```

classDiagram
    class Admin {
        -AdminID
        -AdminPassword
        +VerifyLogin()
        +GiveCredits()
        +Update()
        +VerifyCommunity()
        +VerifyReports()
        +TakeActionAgainstVerifiedReports()
        +RestrictOffenders()
        +ResolveSecurityIssues()
        +DissolveCommunity()
    }
    class User {
        -UserID
        -Password
        -Avatar
        -Credits
        -Email
        -List of questions
        -List of answers
        -List of comments
        -Communities joined
        -contest entries
        -My posts
        -Saved posts
        +SignUp()
        +SignIn()
        +SignOut()
        +postQuery()
        +answerQuery()
        +upVoteAnswer()
        +downVoteAnswer()
        +editProfile()
        +SavePosts()
        +Comment()
        +Post()
        +viewProfile()
        +LikePost()
    }
    class Community {
        -ID
        -Name
        -Description
        -Members
        -Admins
        -Posts
        -Contests
        -Comments
        -chat
        +Join()
        +Leave()
    }
    class Credits {
        -amount
        -recipient
        -dateAwarded
        -total
        +awardCredit()
        +getCreditDetails()
        +updateCreditDetails()
    }
    class Comment {
        -ID
        -Description
        -Timestamp
        -UserWhoPostedTheComment
        -QuestionOrAnswerItBelongsTo
        +getText()
        +setText()
        +getAuthor()
        +setAuthor()
        +getTimestamp()
    }
    class Post {
        -title
        -author
        -description
        -timestamp
        -comments
        -tags
    }
    class Question {
        -ID
        -Title
        -Description
        -Timestamp
        -ListofTags
        -ListofUpvotes
        -ListofDownvotes
    }
    class Competition {
        -ID
        -Name
        -Description
        -Timestamp
        -Rewards
        -CommunityBelongsTo
        -ListofParticipants
        +create()
    }
    class Tag {
        -name
        -description
        -questions
        -createdAt
        -modifiedAt
        +getQuestion()
        +removeQuestion()
        +addQuestion()
        +updateName()
        +updateDescription()
    }
    class Like {
        -userID
        -postId
        -CreatedAt
        -status
        +createLike()
        +removeLike()
        +getLikesCount()
        +getUserLikes()
    }
    class Answer {
        -ID
        -Description
        -Timestamp
        -QuestionItBelongsTo
        -ListofUpvotes
        -ListofDownvotes
        -UserWhoPostedtheAnswer
        +getAnswerDetails()
        +upvote()
        +downvote()
    }
    class Vote {
        -userID
        -postId
        -voteValue
        -timestamp
        +castVote()
        +updateVote()
        +deleteVote()
        +getVoteCount()
    }
    class CommunityAdmin {
        +chat()
        +ParticipantInContests()
        +Operation()
    }
    Admin <|-- User
    CommunityAdmin <|-- CommunityUser
    User "1" -- "*" Community
    User "1" -- "1..*" Credits
    User "1" -- "1..*" Comment
    User "1" -- "1..*" Post
    User "1" -- "1..*" Question
    User "1" -- "1..*" Tag
    User "1" -- "1..*" Like
    User "1" -- "1..*" Answer
    User "1" -- "1..*" Vote
    User "1" -- "1..*" User : +can give
    User "1" -- "1..*" User : +can get
    User "1" -- "1..*" User : +can
    User "1" -- "1..*" User : +can
    User "1" -- "1..*" User : +can
    Community "1..*" -- "1..*" Community
    Community "1..*" -- "1..*" CommunityUser
    Community "1..*" -- "1..*" CommunityAdmin
    Community "1..*" -- "1..*" CommunityUser : +chat()
    Community "1..*" -- "1..*" CommunityUser : +ParticipantInContests()
    Community "1..*" -- "1..*" CommunityUser : +Operation()
    Community "1..*" -- "1..*" Community : +Join()
    Community "1..*" -- "1..*" Community : +Leave()
    Credits "1..*" -- "1..*" Credits
    Comment "1..*" -- "1..*" Comment
    Post "1..*" -- "1..*" Post
    Question "1..*" -- "1..*" Question
    Competition "1..*" -- "1..*" Competition
    Tag "1..*" -- "1..*" Tag
    Like "1..*" -- "1..*" Like
    Answer "1..*" -- "1..*" Answer
    Vote "1..*" -- "1..*" Vote
    
```

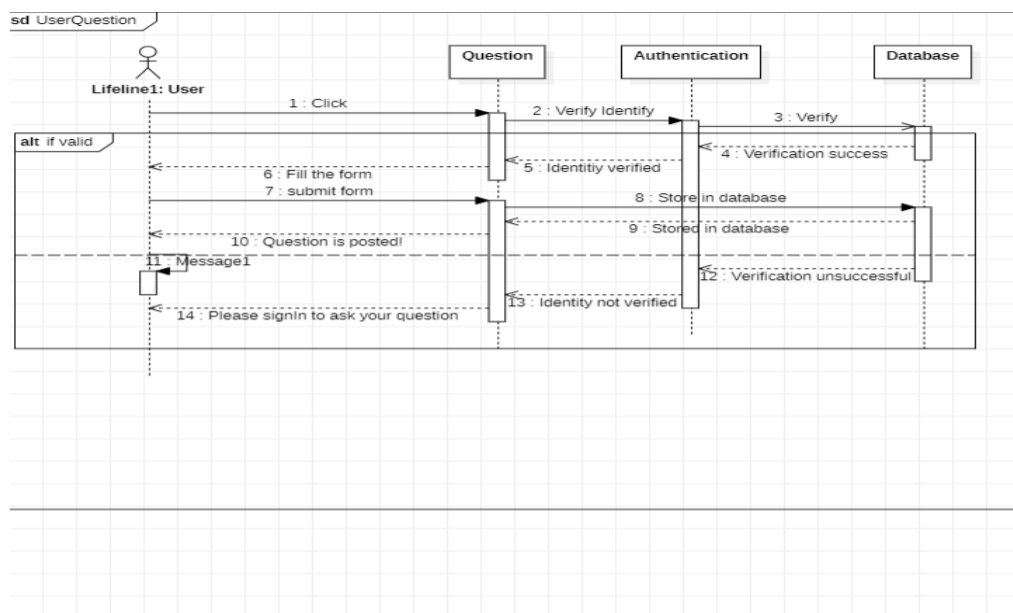
3. Sequence diagrams

We have come across 11 different scenarios and have drawn sequence diagrams for each one of those scenarios.

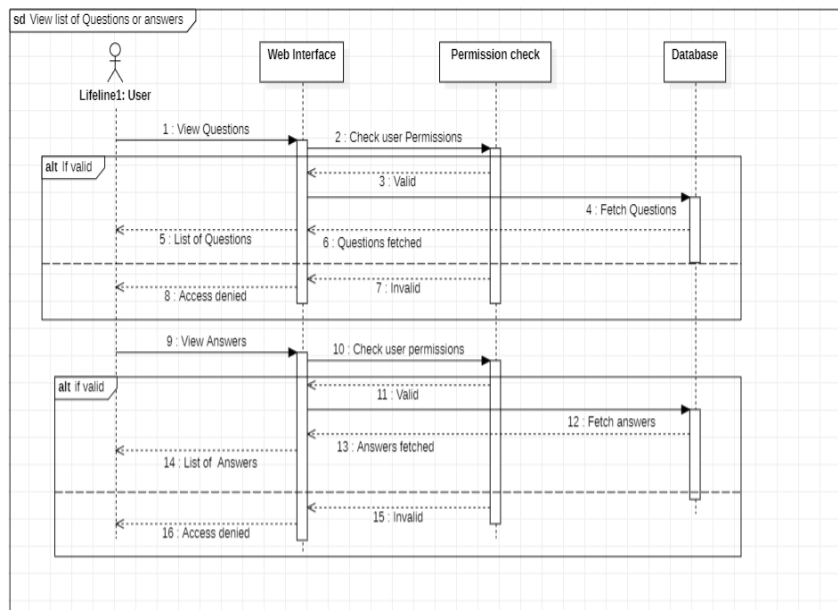
1. SignIn/SignUp



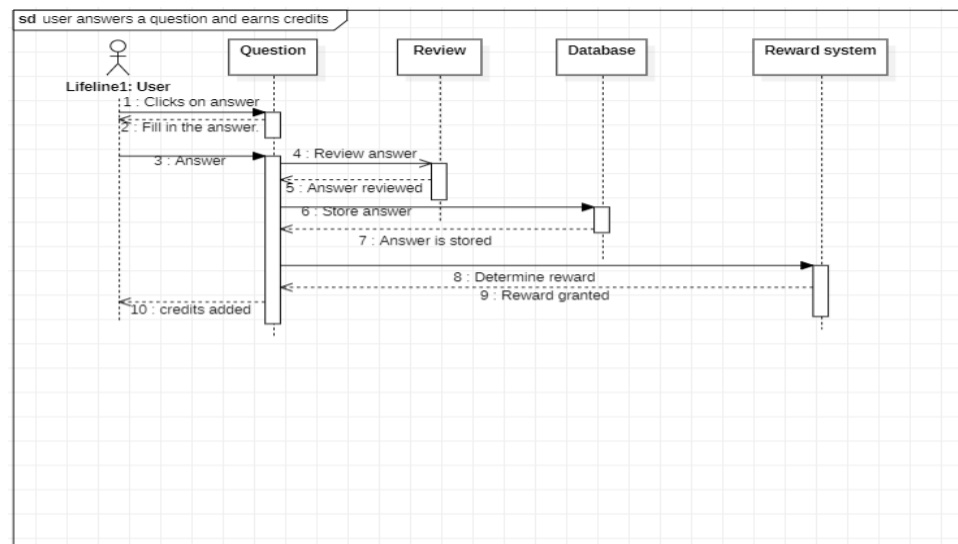
2. User asks a question



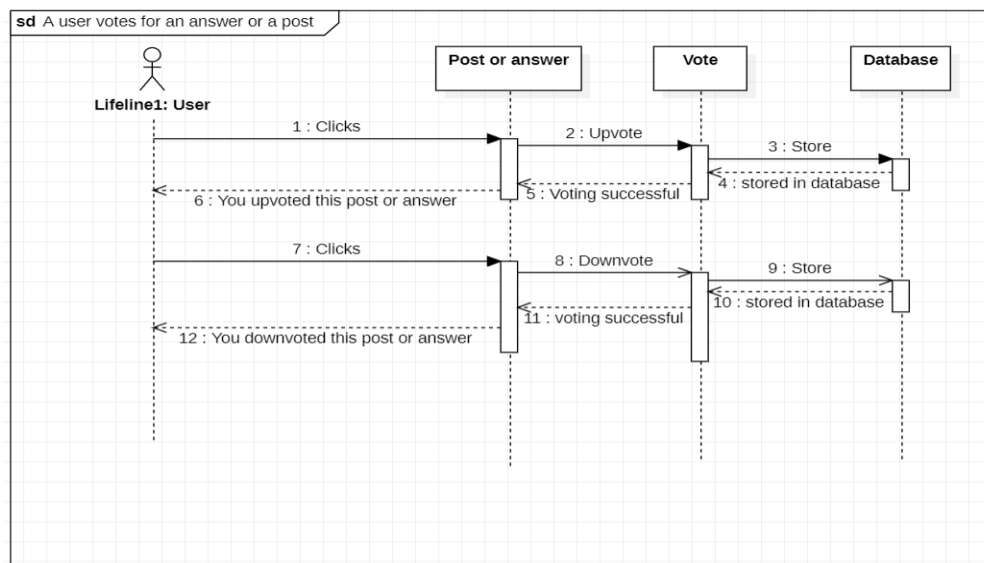
3. Use wants to view the list of questions or answers



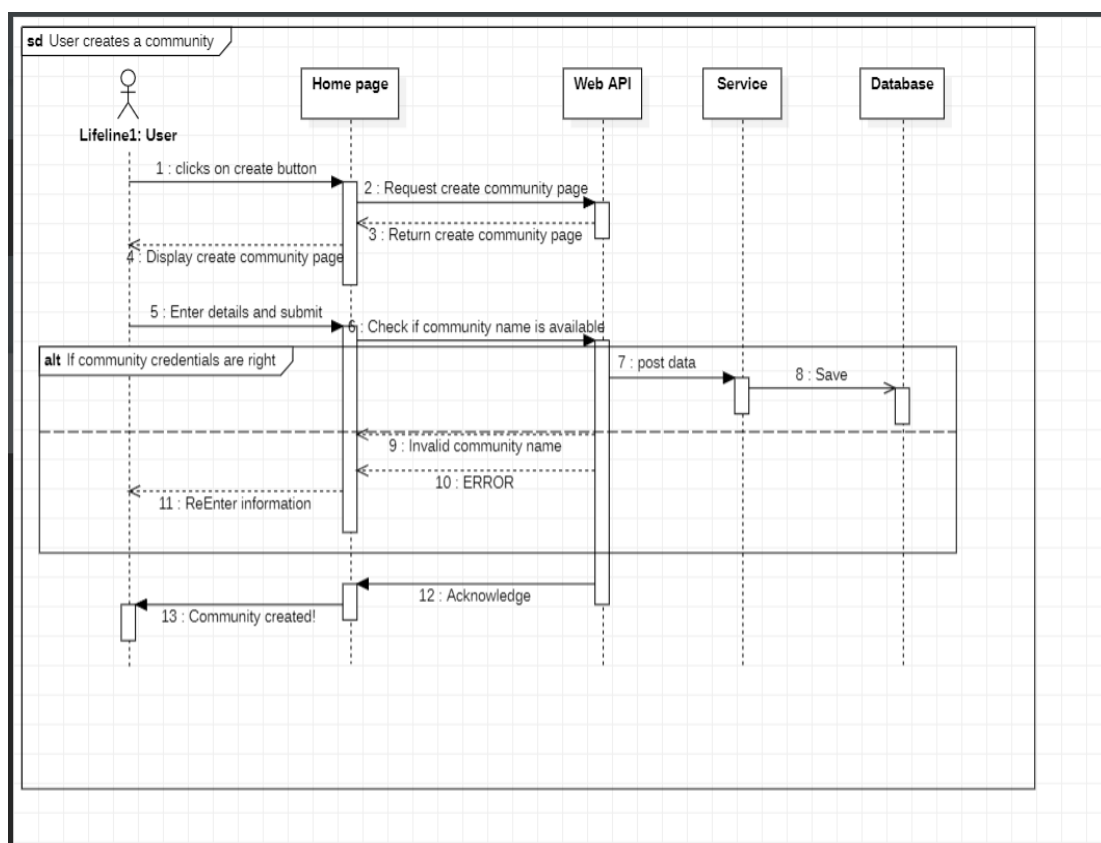
4. User answers a question and earns credits/rewards



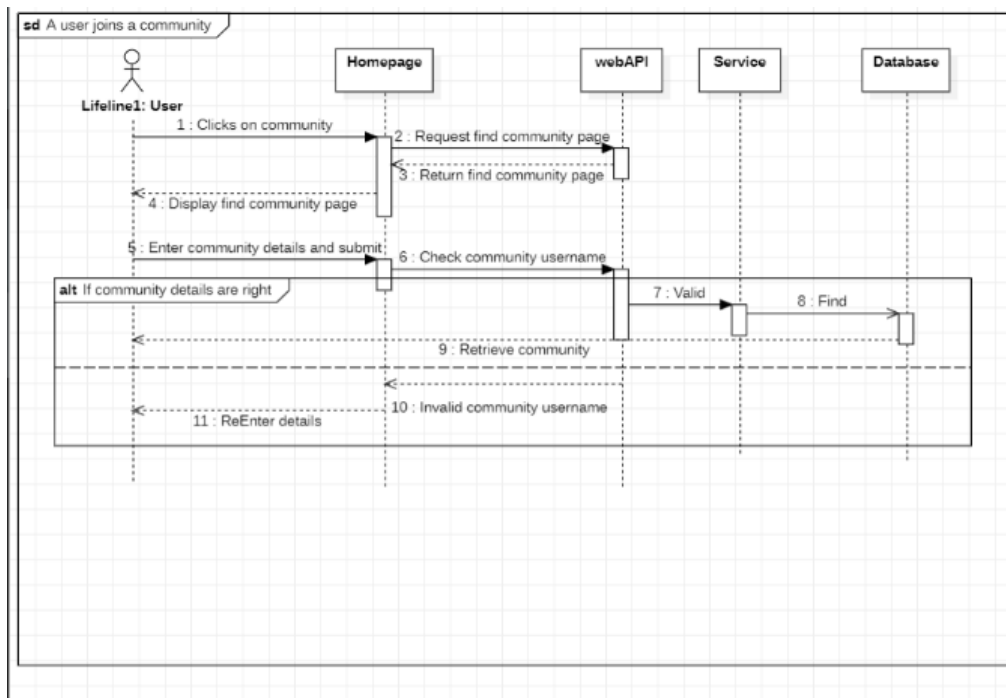
5.A user votes for an answer/post.



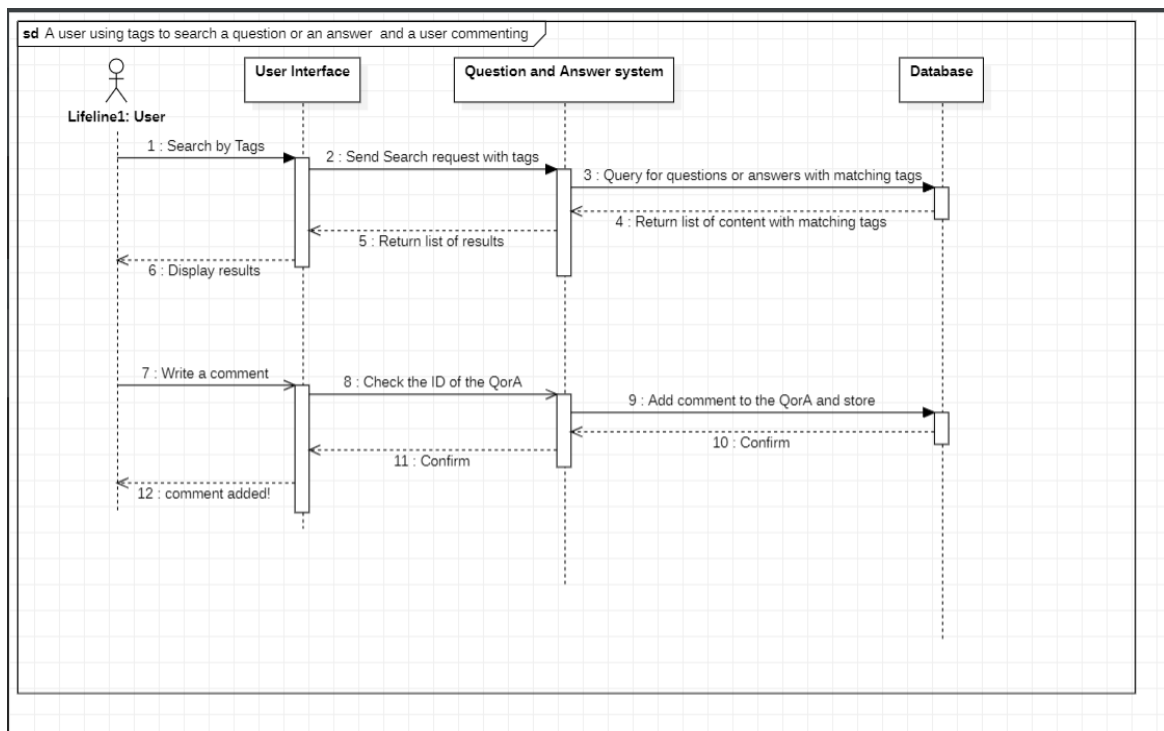
6.User creates a community.



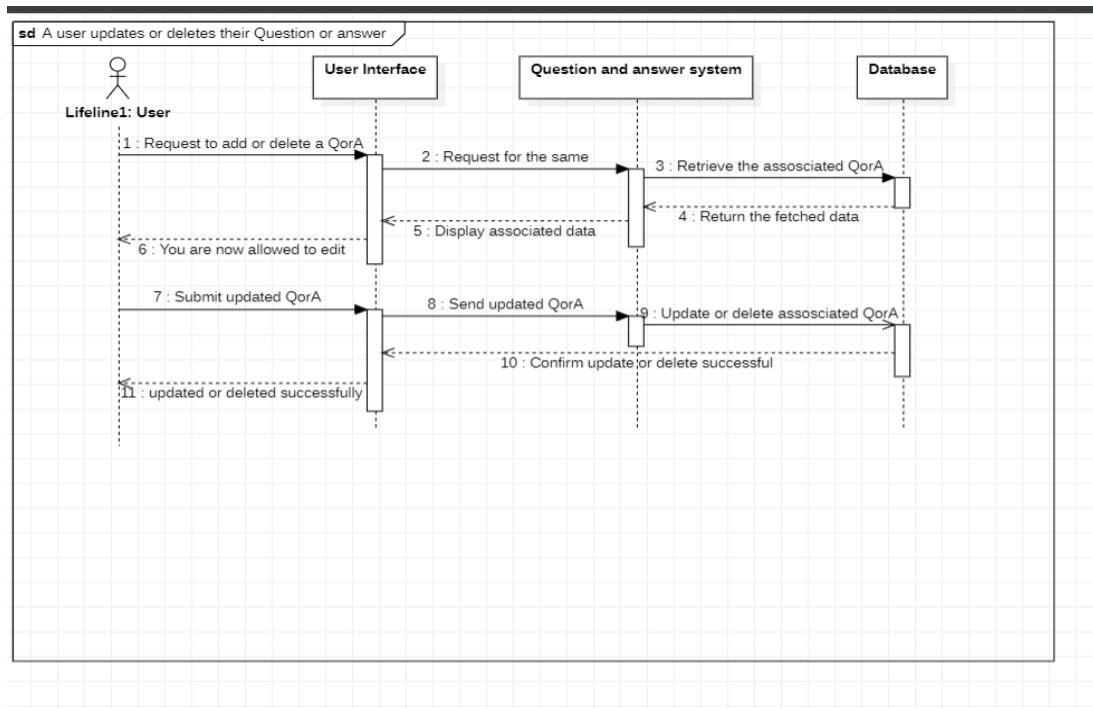
7. User joins a community.



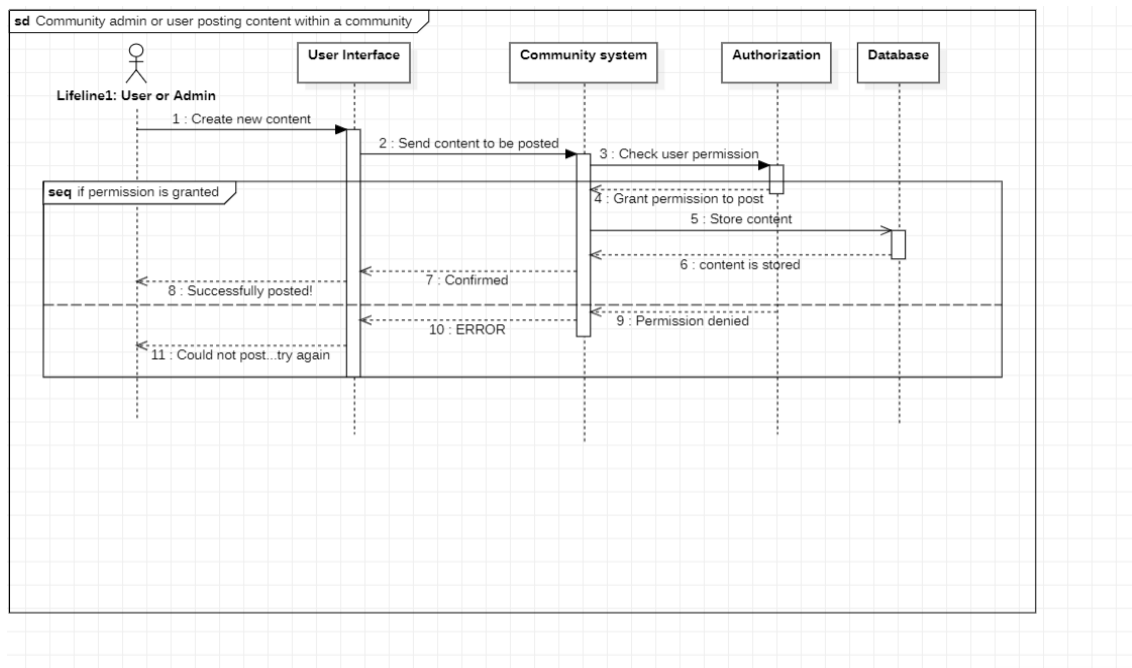
8. A user uses tags to search for a question or an answer.



9.A user updates/deletes their question/answer.



10.Community admin/user posting content within a community



11.Community admin hosts a competition

