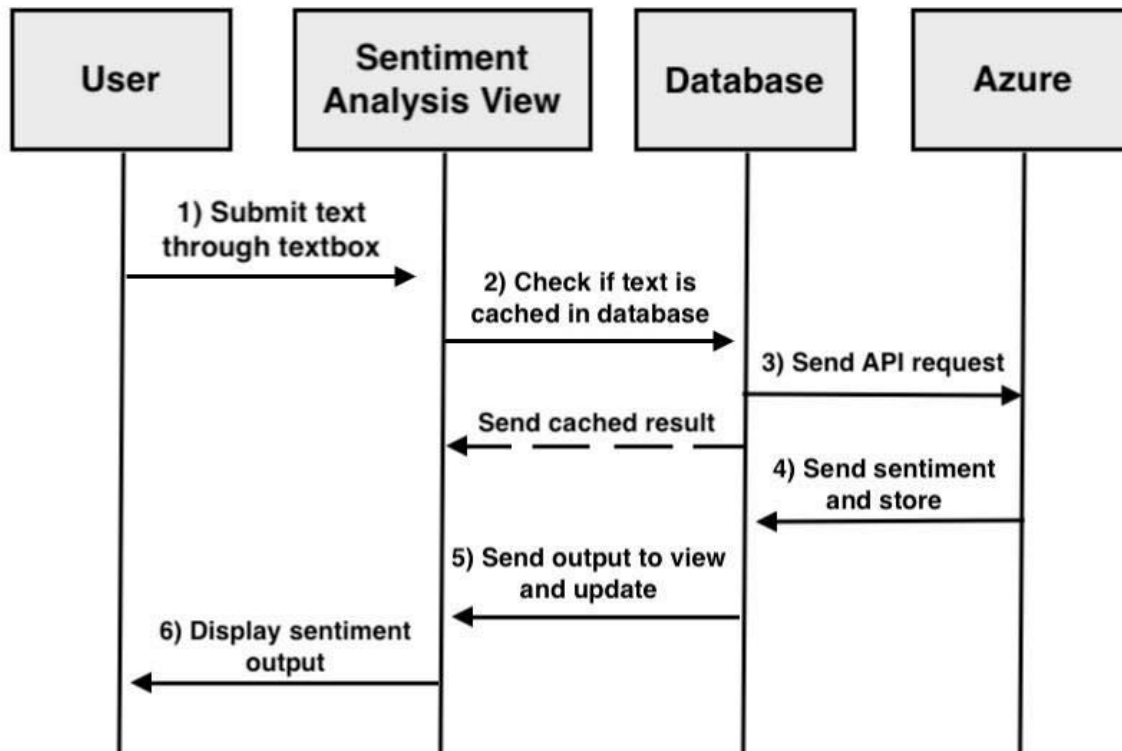


Team Assignment 3: Analysis and Architecture Decision

Team 2

Sequence diagram for analyzing a user's profile bio:



Happy Path:

1. User clicks on 'Edit Profile' button
2. System displays profile edit page
3. User clicks on 'Bio'
4. System displays bio editing function
5. User writes bio
6. User submits bio
7. User clicks 'Update Profile'
8. System saves and updates profile
9. System sends updated bio parameters to user database
10. System sends user bio in database to Azure for sentiment analysis
11. Azure returns bio sentiment to user database
12. System displays the bio sentiment to user

Deviations from 'Happy Path':

Step 6: User submits empty bio

7. System displays error message

9. System prompts user to enter a bio

10. User edits bio

11. User submits bio

Step 6: User submits bio beyond character limit

7. System displays error message

7. System prompts user to re-enter a bio

8. User edits bio

9. User submits bio

Step 9: System sends update bio that matches existing bio for user

10. System displays stored bio sentiment to user

Architecture: Model View Controller (MVC)

Platform: Node.JS because it's widely used, it's asynchronous, and both the server-side and client-side is programmed using JavaScript so it makes it easier for the developers. Because Node is so widely used, there is a good community to learn and draw knowledge from. We decided not to use Django because of our lack of exposure to it. For the architecture, we chose the MVC architecture because it is what most large web applications use since it is easy to scale and it separates important components in the app simplifying collaboration.