

TWEET APP

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4 BUSINESS-REQUIREMENT:

As an application developer, develop frontend, middleware and deploy the Tweet App (Single Page App) with below guidelines:

User Story #	User Story Name	User Story
US_01	Registration and Login	<p>As a user I should be able to login/Register in the tweet application</p> <p>Acceptance criteria:</p> <ol style="list-style-type: none">1. A logged-in user can reset their password so they can login, even if they forget their password.2. A logged-in user:<ol style="list-style-type: none">a. Cannot change their username.b. Can logout from their account.3. As a user I should be able to furnish following details at the time of registration<ol style="list-style-type: none">a. First Nameb. Last Namec. Emaild. Login Ide. Passwordf. Confirm Passwordg. Contact Number4. All details fields must be mandatory5. Login Id and Email must be unique6. Password and Confirm Password must be same7. If any constraint is not satisfied, validation message must be shown
US_02	Post Tweet	<p>As a user I should be able to post a tweet</p> <p>Acceptance criteria:</p> <ol style="list-style-type: none">a. Tweet should not go beyond 144 characters.b. Tweet can optionally be associated with a tag which should not go beyond 50 characters
US_03	View and Reply Tweet	<p>As a user I should be able to view others tweet and reply to it.</p> <p>Acceptance criteria:</p> <ol style="list-style-type: none">a. View others tweet and replyb. Others tweet should display original tweet with all the replyc. Tweet and reply must have user name and time of post displayed along.d. Reply should not go beyond 144 characterse. I should be optionally able to add a tag while replying

5 EXPECTED DELIVERABLES

5.1 REST API (PRODUCTS & FRAMEWORKS -> COMPUTE & INTEGRATION):

- a. Use .Net Core API to version and implement the REST endpoints.
- b. Implement HTTP methods like GET, POST, PUT, DELETE, PATCH to implement RESTful resources:

POST	/api/v1.0/tweets/register	Register as new user
GET	/api/v1.0/tweets/login	Login
GET	/api/v1.0/tweets/<username>/forgot	Forgot password
GET	/api/v1.0/tweets/all	Get all tweets
GET	/api/v1.0/tweets/users/all	Get all users
GET	/api/v1.0/tweets/user/search/username*	Search by username
GET	/api/v1.0/tweets/username	Get all tweets of user
POST	/api/v1.0/tweets/<username>/add	Post new tweet
PUT	/api/v1.0/tweets/<username>/update/<id>	Update tweet
DELETE	/api/v1.0/tweets/<username>/delete/<id>	Delete tweet
PUT	/api/v1.0/tweets/<username>/like/<id>	Like tweet
POST	/api/v1.0/tweets/<username>/reply/<id>	Reply to tweet

- c. *username may be partial or complete username
- d. Use necessary configuration in place for REST API in application.json
- e. Use constructor-based dependency injection
- f. Follow Rest API Naming Conventions
- g. Document REST endpoints with Swagger

5.2 DATABASE (PRODUCTS & FRAMEWORKS -> DATABASE & STORAGE):

1. As an application developer:
 - a. Implement ORM with .Net Core Data
 - b. Have necessary configuration in place for REST API in application .Net Core based configuration

6 PLATFORM

Use above Business Requirements to implement the below.

1. Use Azure to deploy application on cloud.
2. Use Azure SQL Server as a database for the Application.
3. Use Azure Functions and DB to build a backend process for handling requests for Tweet App.
4. Use Azure Service to send email to company after stock is listed.

Note: Minimum 2APIs (UI+Backend) to be hosted in cloud
