

Story 1: User

Description:

As a user,
I want to have a profile,
So that I have a profile.

Acceptance Criteria:

- A User Domain model
- Attributes:
 - Id: Number
 - Username: String -> Can't be empty, can't be null
 - Email: String -> Valid email, can't be empty, can't be null
 - Password: String -> Can't be empty, Can't be null, At least 8 characters
 - Creation_date: LocalDate
 - Role: Role -> A separate domain enum object. Can be User or Admin.
 - Reputation: Level -> A separate domain enum object. Can be Beginner, Intermediate, Trusted. (We will add functionality for this later)

Story 2: Thread

Description:

As a user,
I want to have threads,
So I can ask questions.

Acceptance Criteria:

- A Thread Domain class:
- Attributes:
 - Id: Number
 - Title: String -> Can't be empty, can't be null
 - Content: String -> Can't be empty, can't be null
 - Creation_Date: LocalDate
 - Created_By: User
 - Comments: List of Comment objects

Story 3: Comment

Description:

As a user,
I want to have comments,
So I can comment.

Acceptance Criteria:

- A Comment Domain class:
- Attributes:
 - Id: Number
 - Content: String -> Can't be empty, can't be null
 - Creation_Date: LocalDate
 - Created_By: User
 - ThreadId: Number

Story 4: Cosmos Database

Description:

As an admin,
I want to use cosmos database,
So that I can save everything on azure.

Acceptance Criteria:

- Replace the current Mongo code with Cosmos
- Create a UserRepository and these functions:
 - o CreateUser
 - o FindUserByUsername -> Returns User object
 - o FindUserByEmail -> Returns User object
- Create a ThreadRepository and these functions:
 - o CreateThread
 - o FindThreadById -> Returns Thread object
 - o FindThreadByUserUsername -> Returns Thread object
- Create a CommentRepository and these functions:
 - o CreateComment
 - o FindCommentById -> Returns Comment object
 - o FindCommentByUserUsername -> Returns Comment object

Story 5: Register User

Description:

As a user,
I want to register,
So that I can access the app.

Acceptance Criteria:

Backend:

- There is a '/users/signup' POST endpoint
- In the Request Body it takes:
 - o A JSON with:
 - Username
 - Email
 - Password
- In the User Service:
 - o The User object gets fetched by the username
 - o If the user exists -> throw an exception
 - o The User object gets fetched by the email
 - o If the user exists -> throw an exception
 - o Create a user object AND hash the password, use `LocalDate.now()` for the creation date, set the role to user by default.
 - o Save the user in the repository
 - o Authenticate the username, email address and role using JWT
 - o Return the token, username and role

Frontend:

- There's a register page with a form:
- Form fields:
 - o Username
 - o Email
 - o Password
 - o These fields are also validated so that they're not empty.
 - o Throw the needed exceptions if needed.

Story 6: Login User

Description:

As a user,
I want to login,
So that I can access the app.

Acceptance Criteria:

Backend:

- There is a '/users/login' POST endpoint
- In the Request Body it takes:
 - o A JSON with:
 - Email
 - Password
- In the User Service:
 - o The User object gets fetched by the email
 - o If the user does not exist -> throw an exception
 - o Compare the password with the hashed password. If they do not match -> throw an exception
 - o Authenticate the username, email address and role using JWT
 - o Return the token, username and role

Frontend:

- There's a login page with a form:
- Form fields:
 - o Email
 - o Password
 - o These fields are also validated so that they're not empty.
 - o Throw the needed exceptions if needed.

Story 7: Create Thread

Description:

As a user,
I want to create a thread,
So that I can ask questions.

Acceptance Criteria:

Backend:

- There is a '/thread' POST endpoint
- The user should be authorized to be able to create a thread.
- In the Request Body it takes:
 - o A JSON with:
 - Title
 - Content
 - Username
- In the Thread Service:
 - o The User object gets fetched by the username
 - o If the user does not exist -> throw an exception
 - o Create a thread object, creation date is the `LocalDate.now()`
 - o Save it in the database
 - o Return the created thread object

Frontend:

- In the navigation bar there is a button 'Create Thread'
- It's a form with fields:
 - o Title
 - o Content
 - o A post button
- The data gets send over to the backend

Story 8: Create Comment

Description:

As a user,
I want to create a comment under a thread,
So that I can ask questions.

Acceptance Criteria:

Backend:

- There is a '/comment/{threadId}' POST endpoint
- The user should be authorized to be able to create a thread.
- In the Request Body it takes:
 - o A JSON with:
 - Content
 - Username
- In the Comment Service:
 - o The Thread object gets fetched by it's ID
 - o If the thread does not exist -> throw an exception
 - o The User object gets fetched by the username
 - o If the user does not exist -> throw an exception
 - o Create a comment object, creation date is the LocalDate.now()
 - o Save it in the database
 - o Update the thread object in the database to include the comment
 - o Return the comment object
- In the Thread Repository:
 - o Create a function that adds a comment to the list of comments in a thread.

Frontend:

- By clicking on a thread a thread opens up
- At the bottom of the thread there is a 'comment section'.
- There is also an empty comment field for the user to write their comment in.
- By pressing the comment button OR by pressing enter you're able to send the comment.

Story 9: Test Data

Description:

As an admin,
I want to be able to test my application,
So that I can validate my endpoints.

Acceptance Criteria:

Backend:

- Do your research :D We need a seed file.