

## MindStack Application

### User

- **User Authentication**  
Users can securely **register** for a new account and **log in** to access personalized features within the application.
- **Community Interaction**  
Users can actively **participate in the community** by commenting on any question posted by other users. This feature promotes collaboration, discussion, and knowledge sharing within the platform.
- **Customizable Flashcards**  
Users have the ability to **create personalized flashcards** based on their own study preferences. Each flashcard can be tailored with subjects, topics, to enhance learning efficiency.
- **Quiz Creation and Management**  
Users can **add quizzes or questions** inside their customized flashcards. This allows them to test their understanding of specific topics and organize quizzes under different categories or decks.
- **Unlimited Quiz Attempts**  
Users can **attempt quizzes multiple times**, allowing for continuous practice and mastery of the material. The system may track performance over time to help users monitor their improvement.
- **Comment Rating System**  
Users can **rate comments** made in the community section, helping highlight valuable insights or helpful responses. This encourages constructive participation and helps maintain a quality learning environment.

### User API endpoint.

API Endpoint	Register	
Method	Post	
Request Parameter	Type	Description
username	String	Username will be input upon registering on system, Username will serve as Identity for each user
email	String	Email will be input upon registering on system, Email will serve as a notification for the user.

password	String	Password will be input upon registering, this will serve as a security
This API endpoint allows a new account to register by submitting all the needs in the provided form, The information collected during registration will serve as authentication to our system.		
<b>Success</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>
account_successfully_created	Boolean	A Boolean indicates whether the account is successfully created or not
user_id	Int	It will create a Universal Unique Identification
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?successfully_created=true">https://MindStack?account?successfully_created=true</a>		
<b>Fail</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>
error_message	String	Error message where it indicates what is the error upon creating the account
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?error_message=email?username?password">https://MindStack?account?error_message=email?username?password</a>		

API Endpoint		Login
Method		Post
<b>Request Parameter</b>	<b>Type</b>	<b>Description</b>
user_id	Int	User id will be input upon Logging in on system.
password	String	Password will be input upon logging in, this will serve as a security measurement for the account
This API endpoint allows account that has been registered on our system to sign in and have a access on the system.		
<b>Success</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>

login_successfull	Boolean	A Boolean indicates whether the account is successfully logged in
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?login_success=true&amp;userId=12345">https://MindStack?account?login_success=true&amp;userId=12345</a>		
<b>Fail</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>
error_message	String	Error message where it indicates what is the error upon logging in the account
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?error_message=invalid?email?userId?password">https://MindStack?account?error_message=invalid?email?userId?password</a>		

API Endpoint		Commenting
Method		Post
<b>Request Parameter</b>	<b>Type</b>	<b>Description</b>
content	String	Content is the initial comment (answer) of the user
This API endpoint allows a user to interact with the other user by commenting (answering) to different question in the community.		
<b>Success</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>
comment_id	Int	A Id where indicate as a address of the comment
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?commentId=12345">https://MindStack?account?commentId=12345</a>		
<b>Fail</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>
error_message	String	Error message where it indicates what is the error upon commenting
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?error_message=invalid?comment">https://MindStack?account?error_message=invalid?comment</a>		

API Endpoint		Flashcard	
Method		Post	
Request Parameter		Type	Description
title		String	Serve as the Header of the flashcard
description		String	Information what is the flashcard for
This API endpoint allows user to create his/her own flashcard			
<b>Success</b>			
Redirect Params		Type	Description
flashcard_id		Int	It will serve as address for the flashcard of the user
<b>Sample Redirection URL</b>			
<a href="https://MindStack?account?flashcardId=12345">https://MindStack?account?flashcardId=12345</a>			
<b>Fail</b>			
Redirect Params		Type	Description
error_message		String	Error message where it indicates what is the error upon creating flashcard
<b>Sample Redirection URL</b>			
<a href="https://MindStack?account?error_message=creating?flashcard">https://MindStack?account?error_message=creating?flashcard</a>			

API Endpoint		Quiz Creation	
Method		Post	
Request Parameter		Type	Description
question		String	Question that will be store in flashcard
question_type		Enum	A type of question whether it's multiple choice or identification
option_a		String	Choices for option A
option_b		String	Choices for option B
option_c		String	Choices for option C
option_d		String	Choices for option D
Identification_answer		String	Question for identification
correct_answer		String	Correct answer for both question type
This API endpoint allows user to input their own question and answer with a type of question either choices or identification			

<b>Success</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>
quiz_id	Int	Serve as a address for each question inside the flashcard
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?flashcardId=12345">https://MindStack?account?flashcardId=12345</a>		
<b>Fail</b>		
<b>Redirect Params</b>	<b>Type</b>	<b>Description</b>
error_message	String	Error message where it indicates what is the error upon creating quizzes
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?error_message=creating?quizzes">https://MindStack?account?error_message=creating?quizzes</a>		

API Endpoint		Quiz Attempt	
Method		Get	
Request Parameter		Type	Description
quiz_id		Int	Quiz id is the initial id of each question
flashcard_id		Int	Flash card id is the set of question that has been created by the user
user_id		Int	User that taking the quiz
This API endpoint allows user to take the attempt quizzes multiple times			
Success			
Redirect Params		Type	Description
selected_answer		String	Selected answer of the user
is_correct		Boolean	Identification whether the answer is correct
attempt_date		Date	Initial date where it has been attempt
total_score		Int	Total score of the quiz
attempt_streak		Int	Number of attempts on the quiz
Sample Redirection URL			
<a href="https://MindStack?account?flashcardId=12345?totalScore=10">https://MindStack?account?flashcardId=12345?totalScore=10</a>			
Fail			

Redirect Params	Type	Description
error_message	String	Error message where it indicates what is the error upon answering the quizzes
<b>Sample Redirection URL</b>		
<a href="https://MindStack?account?error_message=answering?quizzes">https://MindStack?account?error_message=answering?quizzes</a>		

API Endpoint		Rating System	
Method		Get	
Request Parameter		Type	Description
comment_id		Int	Comment id is the address of the comment where the user commented it
user_id		Int	The user that commented on a initial question
rating_value		Int	Credibility of the comment that has been commented
This API endpoint allows user to rate a comment (answer) based on the credibility of the comment (answer)			
Success			
Redirect Params		Type	Description
rating_id		Int	Initial address of the rated comment
Sample Redirection URL			
<a href="https://MindStack?account?commentId=12345?ratingValue=5">https://MindStack?account?commentId=12345?ratingValue=5</a>			
Fail			
Redirect Params		Type	Description
error_message		String	Error message where it indicates what is the error upon rating a comment
Sample Redirection URL			
<a href="https://MindStack?account?error_message=rating?comment">https://MindStack?account?error_message=rating?comment</a>			