

**Spring 2018**

# Senior Project Report

**Computer Science Department**

California State University, **Dominguez Hills**



abstract definition source: <https://users.ece.cmu.edu/~koopman/essays/abstract.html>

Problem statement: What problem are you trying to solve?

- Answering the same question multiple times

Motivation: Why do we care about the problem and the results?

- Save people time and energy answering the same question

Approach: How did you go about solving or making progress on the problem?

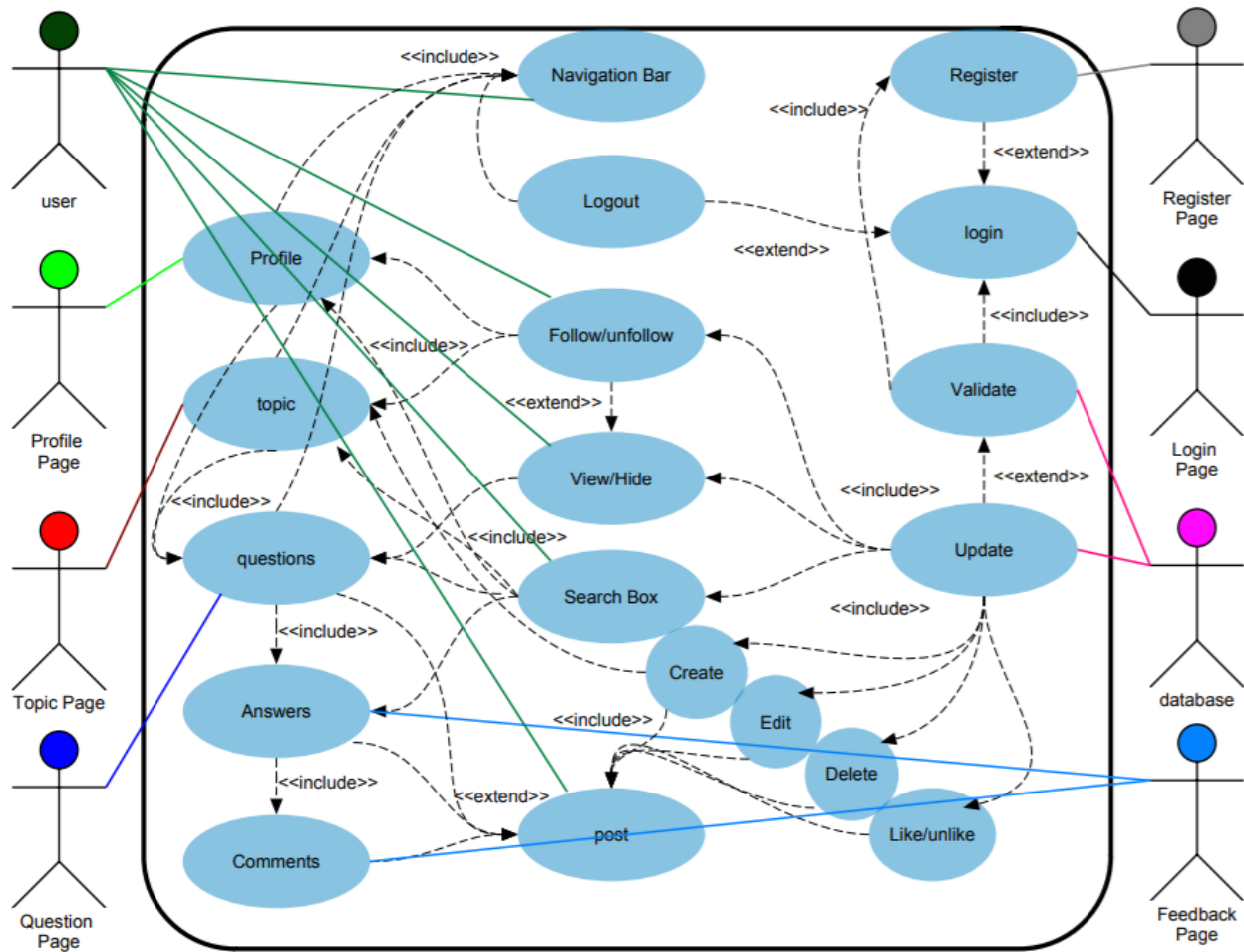
- I made a website called FAQexchange where people post frequently ask questions and answers.

Results: What's the answer?

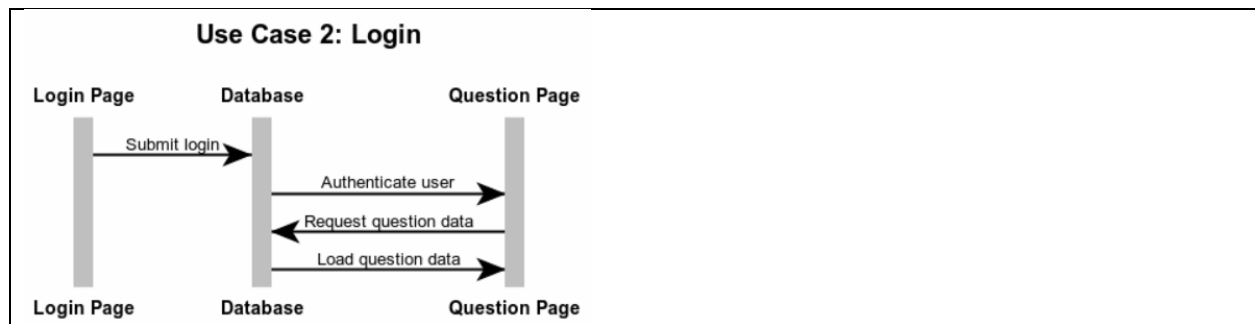
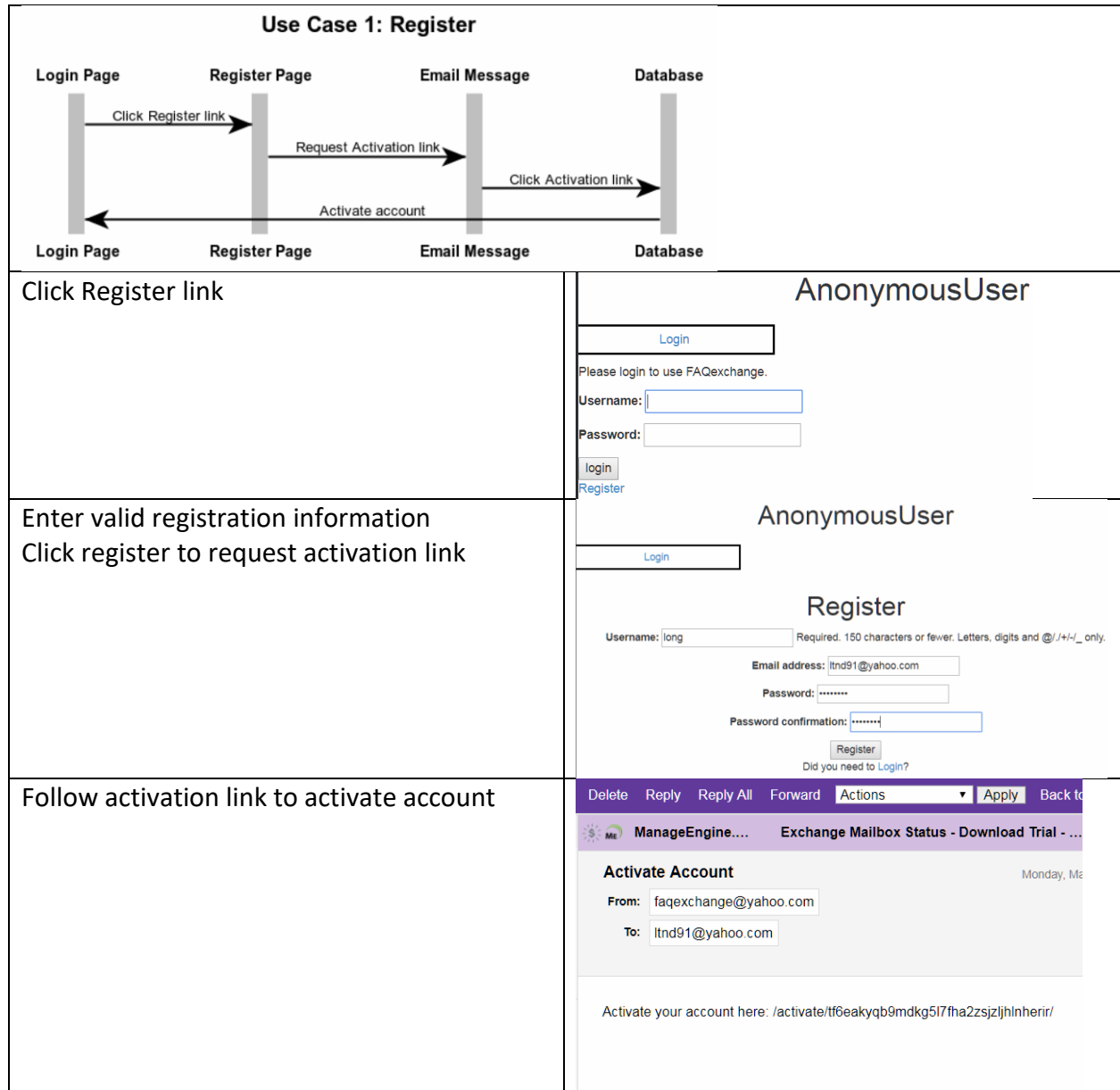
- I can answer question on FAQexchange,
- if someone ask me a question I already answered, I tell them to look at my FAQexchange.

Conclusions: What are the implications of your answer?

- People will look at a person FAQexchange before asking questions

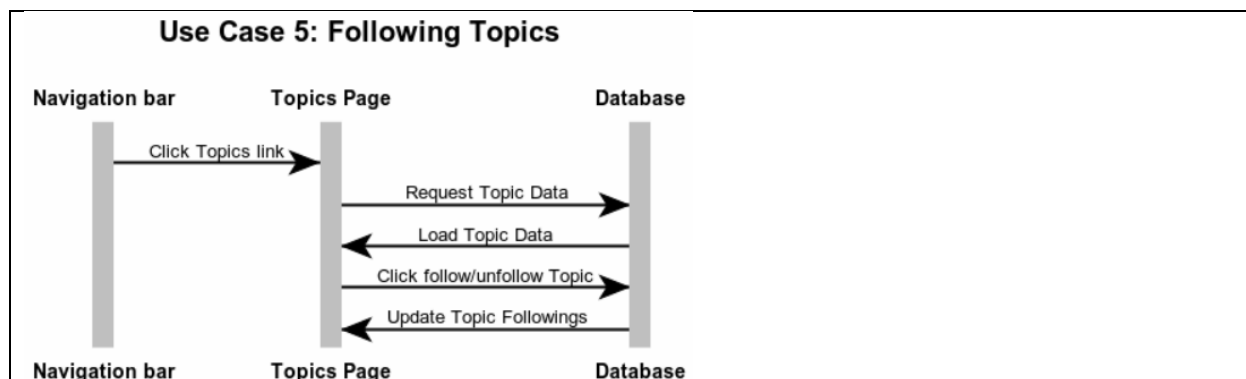
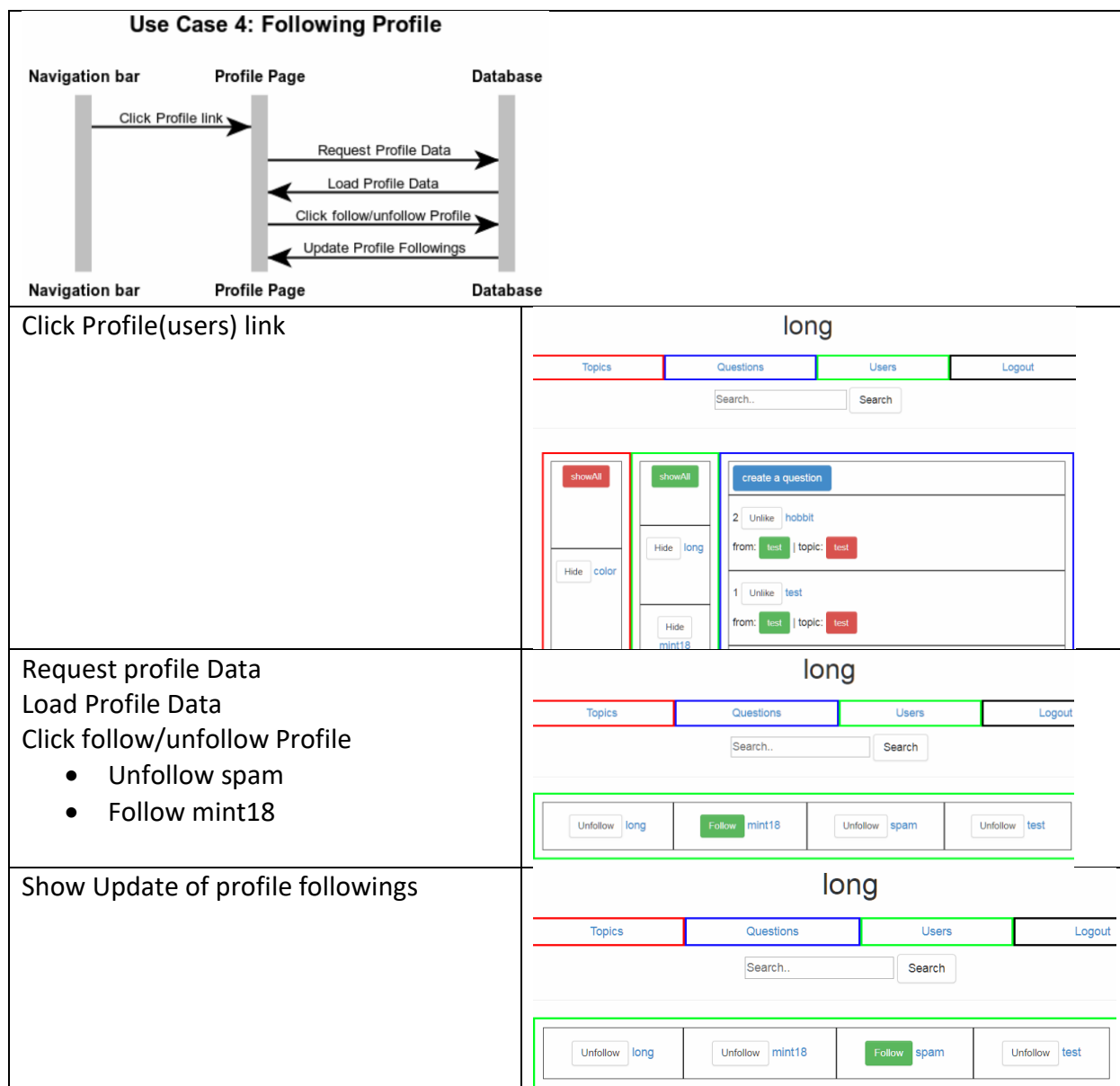


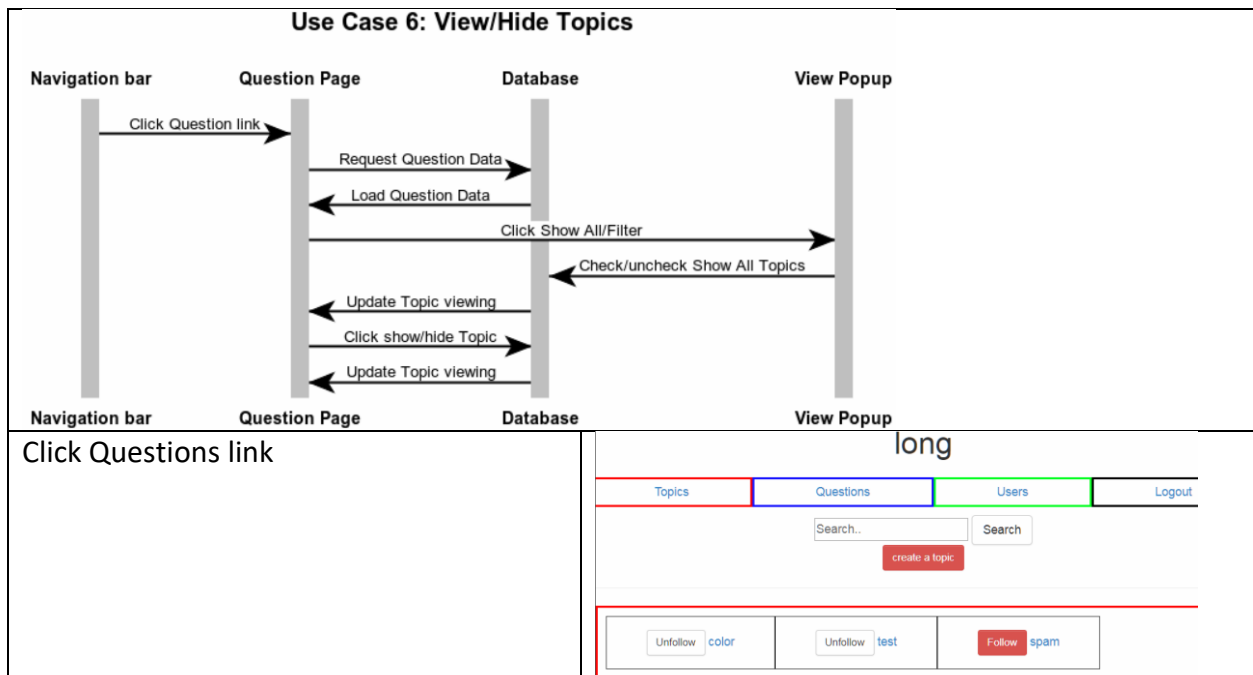
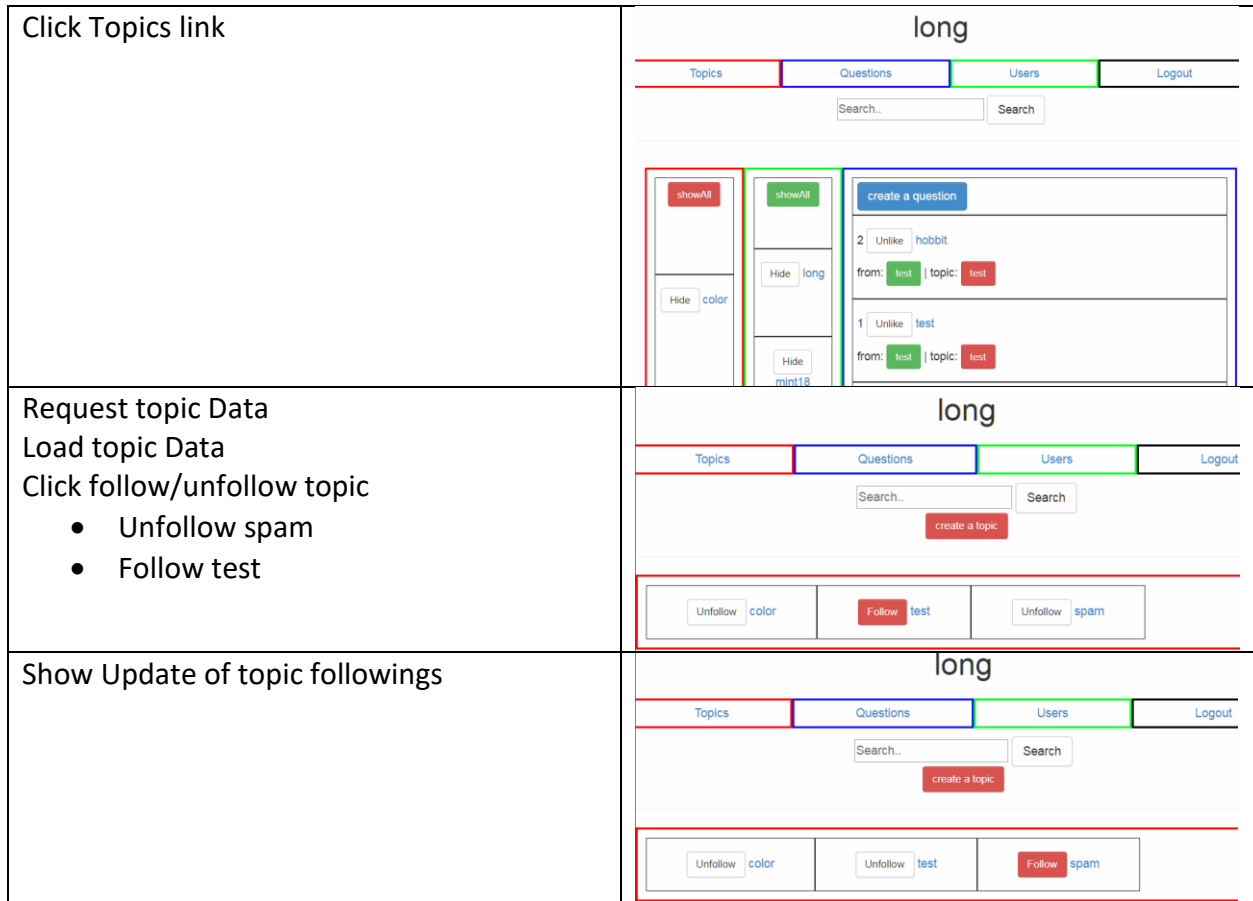
Actors	Use Cases
<ul style="list-style-type: none"> <li>• User</li> <li>• Profile Page</li> <li>• Topic Page</li> <li>• Question Page</li> <li>• Feedback Page</li> <li>• Database</li> <li>• Login Page</li> <li>• Register Page</li> </ul>	<ul style="list-style-type: none"> <li>• New User Registration</li> <li>• User Login</li> <li>• User Logout</li> <li>• Follow/unfollow Profile</li> <li>• Follow/unfollow Topic</li> <li>• View/Hide Profile</li> <li>• View/Hide Topic</li> <li>• Search Box Filter</li> </ul> <p>3 types of post: question, answer, comment</p> <ul style="list-style-type: none"> <li>• Create a post</li> <li>• Edit a post</li> <li>• Like a post</li> <li>• Delete a post</li> </ul>



Submit Login	<p style="text-align: right;"><b>AnonymousUser</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <a href="#">Login</a> </div> <p>Please login to use FAQexchange.</p> <p>Username: <input type="text" value="long"/></p> <p>Password: <input type="password" value="*****"/></p> <p> <input type="button" value="login"/> <a href="#">Register</a> </p>
Authenticate user (appears on top of page) Request question data Load question data	<p style="text-align: right;"><b>long</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <span style="border: 1px solid red; padding: 2px 5px;">Topics</span> <span style="border: 1px solid blue; padding: 2px 5px;">Questions</span> <span style="border: 1px solid green; padding: 2px 5px;">Users</span> <span style="border: 1px solid black; padding: 2px 5px;">Logout</span> </div> <p>Search.. <input type="button" value="Search"/></p> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"> <input type="button" value="showAll"/> </div> <div style="border: 1px solid blue; padding: 5px;"> <input type="button" value="Hide"/> color         </div> </div> <div style="width: 30%;"> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;"> <input type="button" value="showAll"/> </div> <div style="border: 1px solid black; padding: 5px;"> <input type="button" value="Hide"/> long         </div> </div> <div style="width: 30%;"> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;"> <input type="button" value="create a question"/> </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>2</span> <span>Unlike</span> <span>hobbit</span> </div> <div style="display: flex; justify-content: space-between;"> <span>from:</span> <span>test</span> <span>topic:</span> <span>test</span> </div> </div> </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>1</span> <span>Unlike</span> <span>test</span> </div> <div style="display: flex; justify-content: space-between;"> <span>from:</span> <span>test</span> <span>topic:</span> <span>test</span> </div> </div> </div>

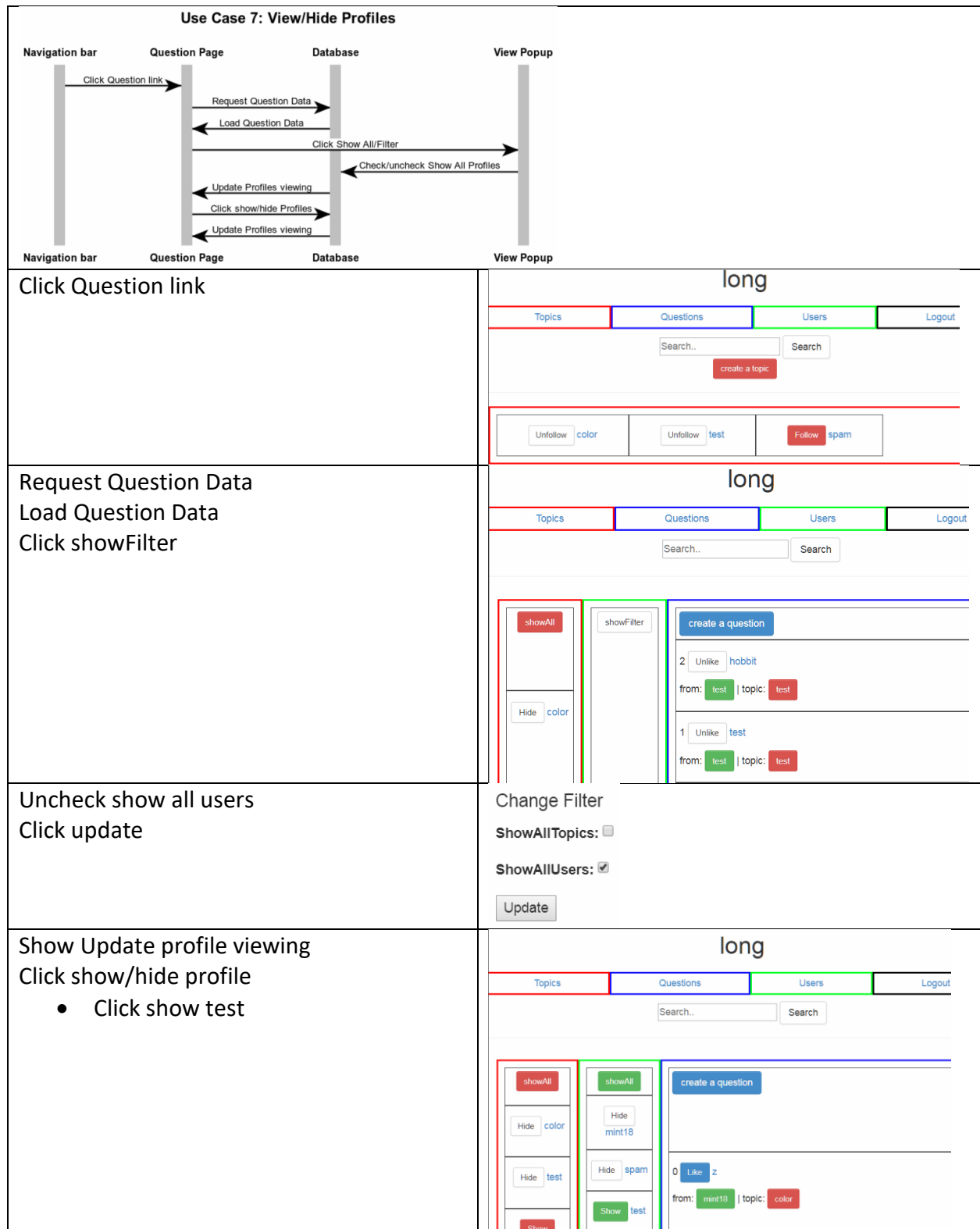
<b>Use Case 3: Logout</b>	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <b>Navigation bar</b>  <div style="width: 20px; height: 40px; background-color: gray; margin: 0 auto;"></div> </div> <div style="text-align: center;"> <b>Database</b>  <div style="width: 20px; height: 40px; background-color: gray; margin: 0 auto;"></div> </div> <div style="text-align: center;"> <b>Login Page</b>  <div style="width: 20px; height: 40px; background-color: gray; margin: 0 auto;"></div> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;"> <b>Navigation bar</b>  <div style="width: 20px; height: 40px; background-color: gray; margin: 0 auto;"></div> </div> <div style="text-align: center;"> <b>Database</b>  <div style="width: 20px; height: 40px; background-color: gray; margin: 0 auto;"></div> </div> <div style="text-align: center;"> <b>Login Page</b>  <div style="width: 20px; height: 40px; background-color: gray; margin: 0 auto;"></div> </div> </div> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 10px;"> <div style="text-align: center;">       Click Logout link        →     </div> <div style="text-align: center;">       Logout user        →     </div> </div>	
Click Logout link	<p style="text-align: right;"><b>long</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <span style="border: 1px solid red; padding: 2px 5px;">Topics</span> <span style="border: 1px solid blue; padding: 2px 5px;">Questions</span> <span style="border: 1px solid green; padding: 2px 5px;">Users</span> <span style="border: 1px solid black; padding: 2px 5px;">Logout</span> </div> <p>Search.. <input type="button" value="Search"/></p> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <div style="border: 1px solid red; padding: 5px; margin-bottom: 5px;"> <input type="button" value="showAll"/> </div> <div style="border: 1px solid blue; padding: 5px;"> <input type="button" value="Hide"/> color         </div> </div> <div style="width: 30%;"> <div style="border: 1px solid green; padding: 5px; margin-bottom: 5px;"> <input type="button" value="showAll"/> </div> <div style="border: 1px solid black; padding: 5px;"> <input type="button" value="Hide"/> long         </div> </div> <div style="width: 30%;"> <div style="border: 1px solid blue; padding: 5px; margin-bottom: 5px;"> <input type="button" value="create a question"/> </div> <div style="border: 1px solid black; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>2</span> <span>Unlike</span> <span>hobbit</span> </div> <div style="display: flex; justify-content: space-between;"> <span>from:</span> <span>test</span> <span>topic:</span> <span>test</span> </div> </div> </div> </div> <div style="border: 1px solid black; padding: 5px; margin-top: 5px;"> <div style="display: flex; justify-content: space-between;"> <span>1</span> <span>Unlike</span> <span>test</span> </div> <div style="display: flex; justify-content: space-between;"> <span>from:</span> <span>test</span> <span>topic:</span> <span>test</span> </div> </div> </div>
Logout user (AnonymousUser means no one is logged in)	<p style="text-align: right;"><b>AnonymousUser</b></p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <a href="#">Login</a> </div> <p>Please login to use FAQexchange.</p> <p>Username: <input type="text"/></p> <p>Password: <input type="password"/></p> <p> <input type="button" value="login"/> <a href="#">Register</a> </p>

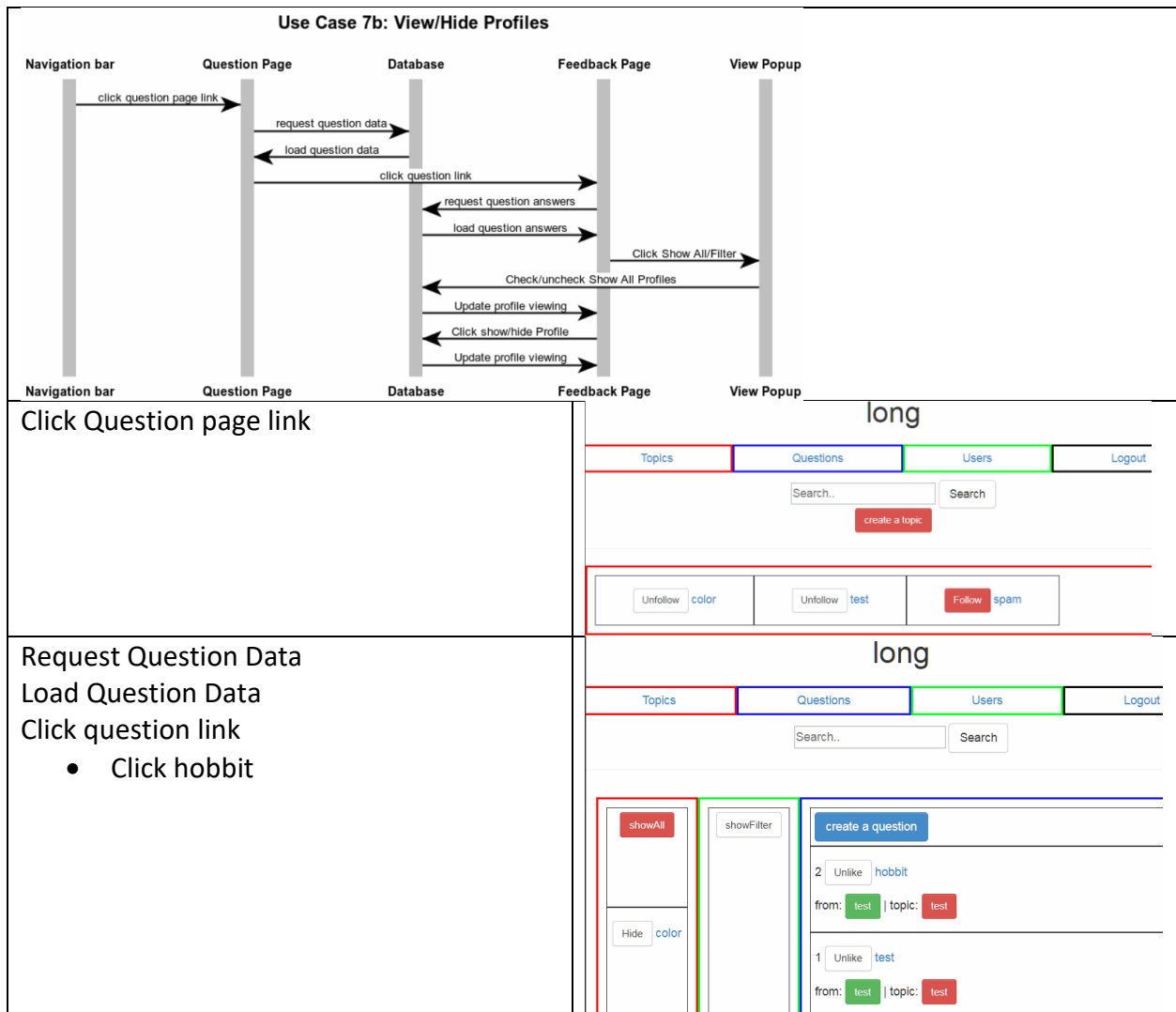
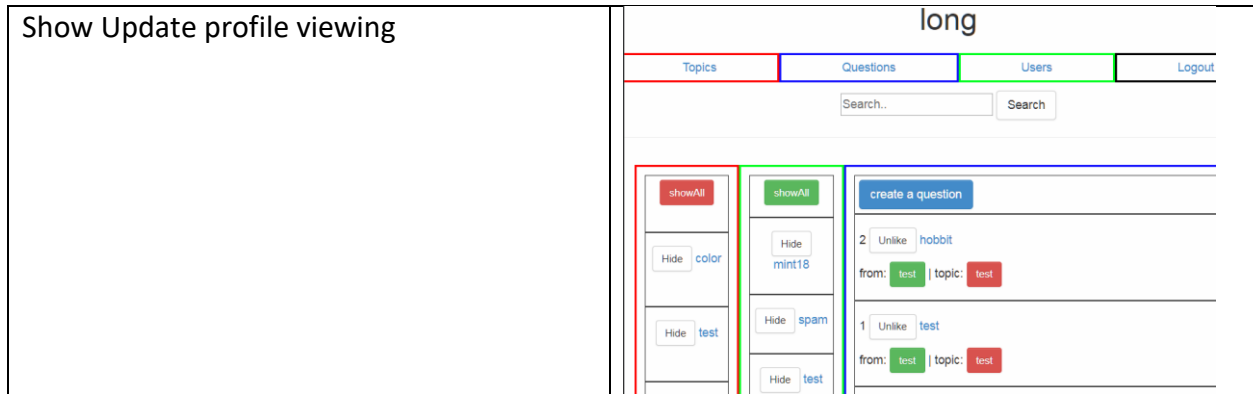






<p>Request Question Data Load Question Data Click showFilter</p>	<p>long</p> <div> <div>TopicsQuestionsUsersLogout</div> <div>Search.. Search</div> </div> <div> <div>showFilter</div> <div>showAll</div> <div>create a question</div> <div>2 Unlike hobbit</div> <div>from: test   topic: test</div> <div>1 Unlike test</div> <div>from: test   topic: test</div> </div>
<p>Uncheck show all topics click update</p>	<p>Change Filter</p> <p>ShowAllTopics: <input checked="" type="checkbox"/></p> <p>ShowAllUsers: <input type="checkbox"/></p> <p>Update</p>
<p>Show Update topic viewing Click show/hide topic</p> <ul style="list-style-type: none"> <li>Click show test</li> </ul>	<p>long</p> <div> <div>TopicsQuestionsUsersLogout</div> <div>Search.. Search</div> </div> <div> <div>showAll</div> <div>showAll</div> <div>create a question</div> <div>0 Like what is your favorite color?</div> <div>edit delete   topic: color</div> <div>0 Like a</div> <div>edit delete   topic: color</div> </div>
<p>Show Update topic viewing</p>	<p>long</p> <div> <div>TopicsQuestionsUsersLogout</div> <div>Search.. Search</div> </div> <div> <div>showAll</div> <div>showAll</div> <div>create a question</div> <div>2 Unlike hobbit</div> <div>from: test   topic: test</div> <div>1 Unlike test</div> <div>from: test   topic: test</div> <div>0 Like what is your favorite color?</div> </div>





request question answers  
load question answers  
click showFilter

**long**

Topics	Questions	Users	Logout
<div> <div>2</div> <div>Unlike</div> <div>hobbit</div> </div> <div> <div>from:</div> <div>test</div> <div> </div> <div>topic:</div> <div>test</div> </div>			
<div>Search..</div> <div>Search</div>			
<div>showFilter</div>	<div>create an answer</div> <div> <div>2</div> <div>Unlike</div> <div>food</div> </div> <div> <div>from:</div> <div>test</div> <div> </div> <div>Reply</div> </div> <div> <div>1</div> <div>Unlike</div> <div>cheese</div> </div> <div> <div>edit</div> <div>delete</div> <div>Reply</div> </div>	<div> <div>0</div> <div>Like</div> <div>taco</div> </div> <div> <div>from:</div> <div>mint18</div> <div> </div> <div>Comment</div> </div> <div>No Comments Found</div>	

Uncheck show all users  
Click update

Change Filter

ShowAllTopics: ☐

ShowAllUsers: ☒

Update

Update profile viewing  
Click show/hide profile

- Click show test

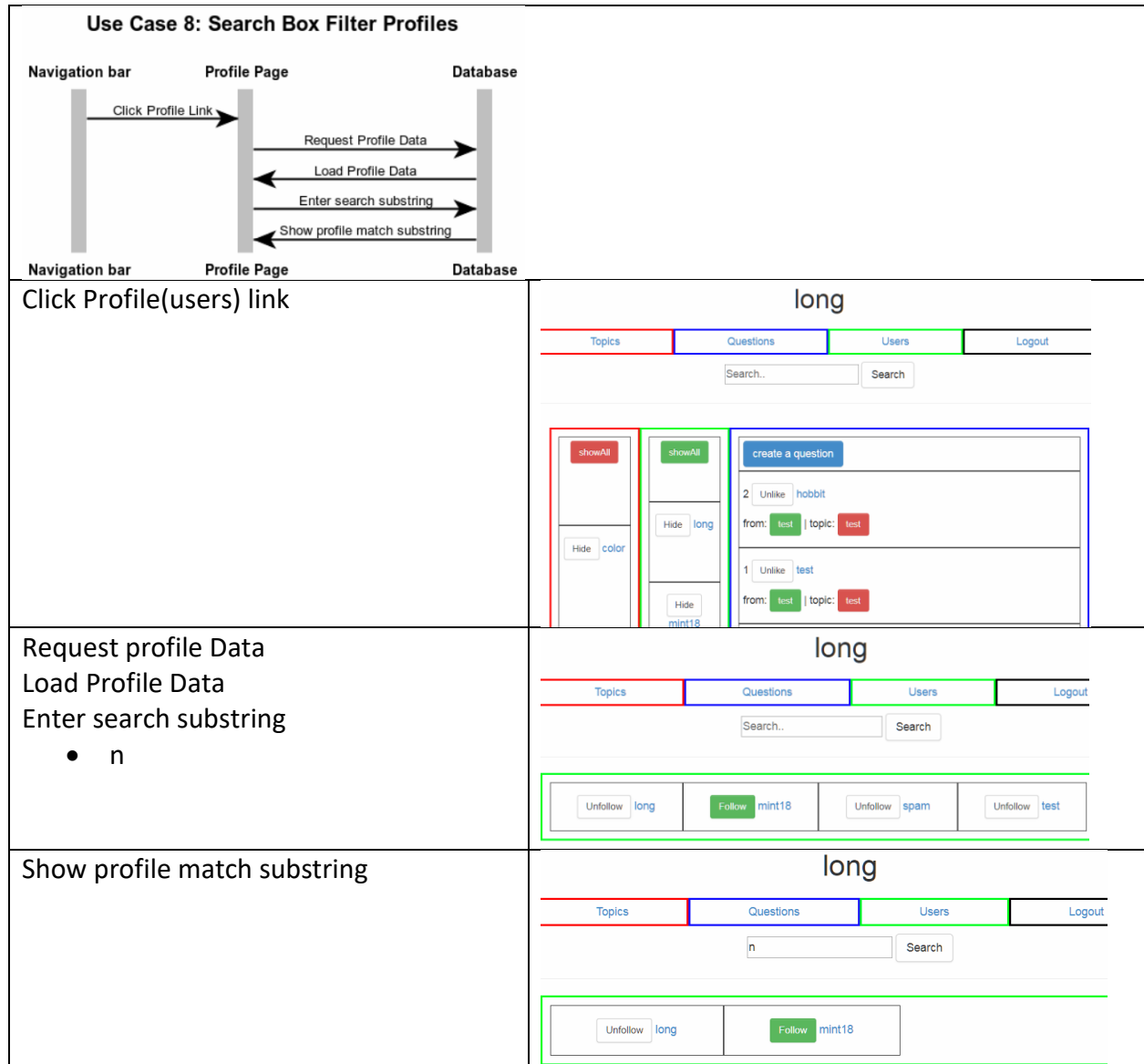
**long**

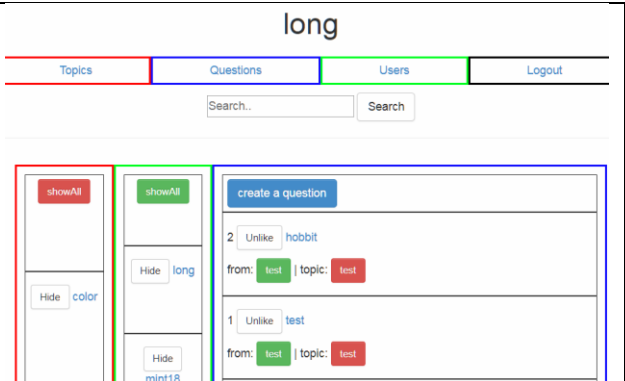
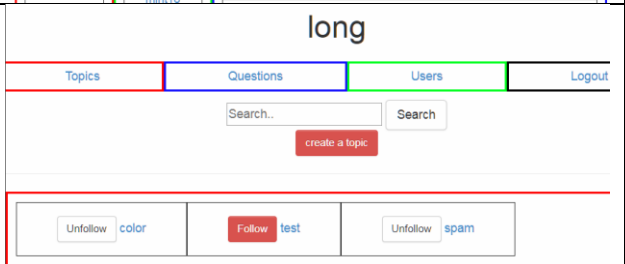
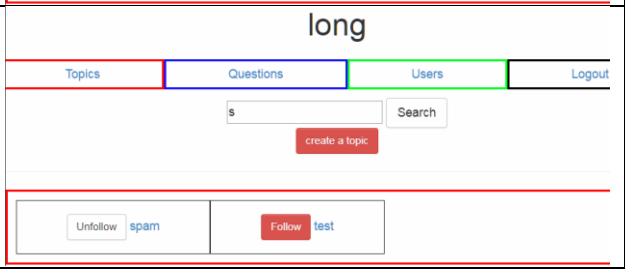
Topics	Questions	Users	Logout
<div> <div>2</div> <div>Unlike</div> <div>hobbit</div> </div> <div> <div>from:</div> <div>test</div> <div> </div> <div>topic:</div> <div>test</div> </div>			
<div>Search..</div> <div>Search</div>			
<div>showAll</div> <div>Show test</div> <div>Show long</div>	<div>create an answer</div> <div> <div>0</div> <div>Like</div> <div>taco</div> </div> <div> <div>from:</div> <div>mint18</div> <div> </div> <div>Viewing...</div> </div>	<div> <div>0</div> <div>Like</div> <div>taco</div> </div> <div> <div>from:</div> <div>mint18</div> <div> </div> <div>Comment</div> </div> <div>No Comments Found</div>	

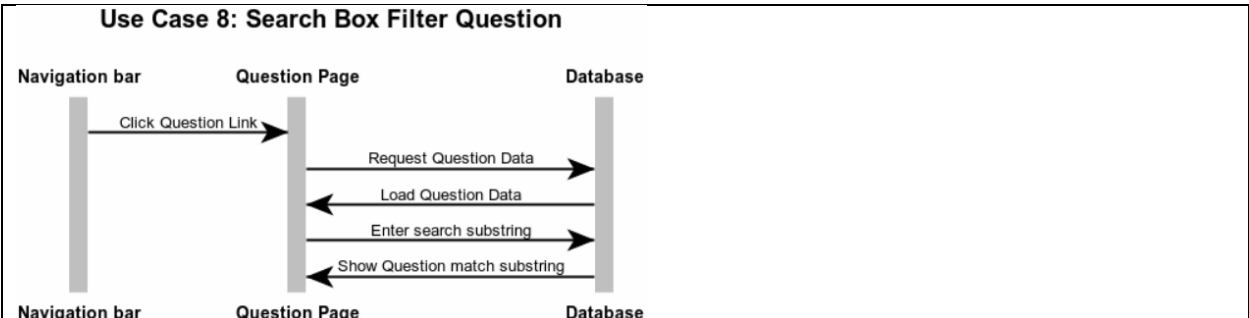
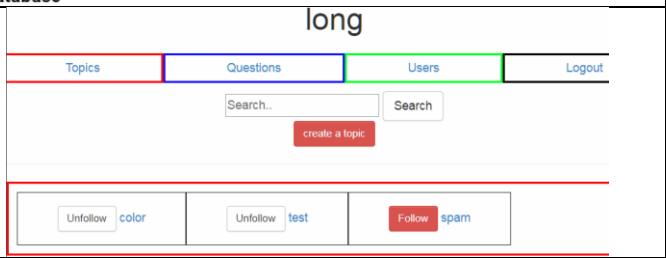
Update profile viewing

**long**

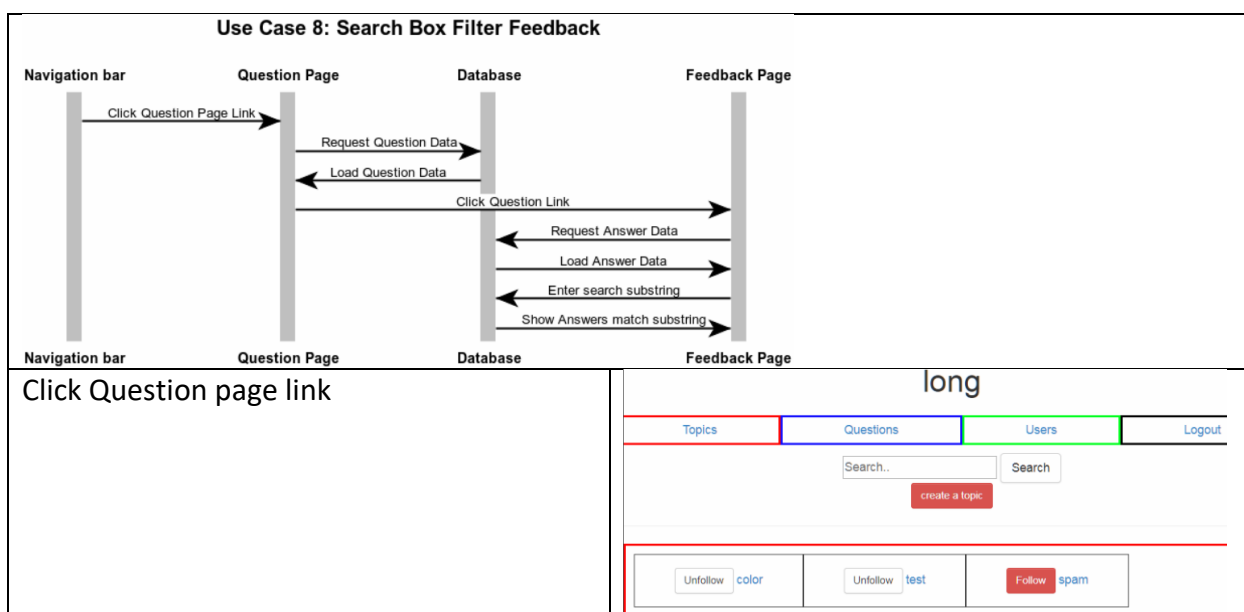
Topics	Questions	Users	Logout
<div> <div>2</div> <div>Unlike</div> <div>hobbit</div> </div> <div> <div>from:</div> <div>test</div> <div> </div> <div>topic:</div> <div>test</div> </div>			
<div>Search..</div> <div>Search</div>			
<div>showAll</div> <div>Hide test</div> <div>Show long</div>	<div>create an answer</div> <div> <div>2</div> <div>Unlike</div> <div>food</div> </div> <div> <div>from:</div> <div>test</div> <div> </div> <div>Reply</div> </div>	<div> <div>0</div> <div>Like</div> <div>taco</div> </div> <div> <div>from:</div> <div>mint18</div> <div> </div> <div>Comment</div> </div>	



Click Topics link	
Request topic Data Load topic Data Enter search substring <ul style="list-style-type: none"><li>s</li></ul>	
Show Topic match substring	

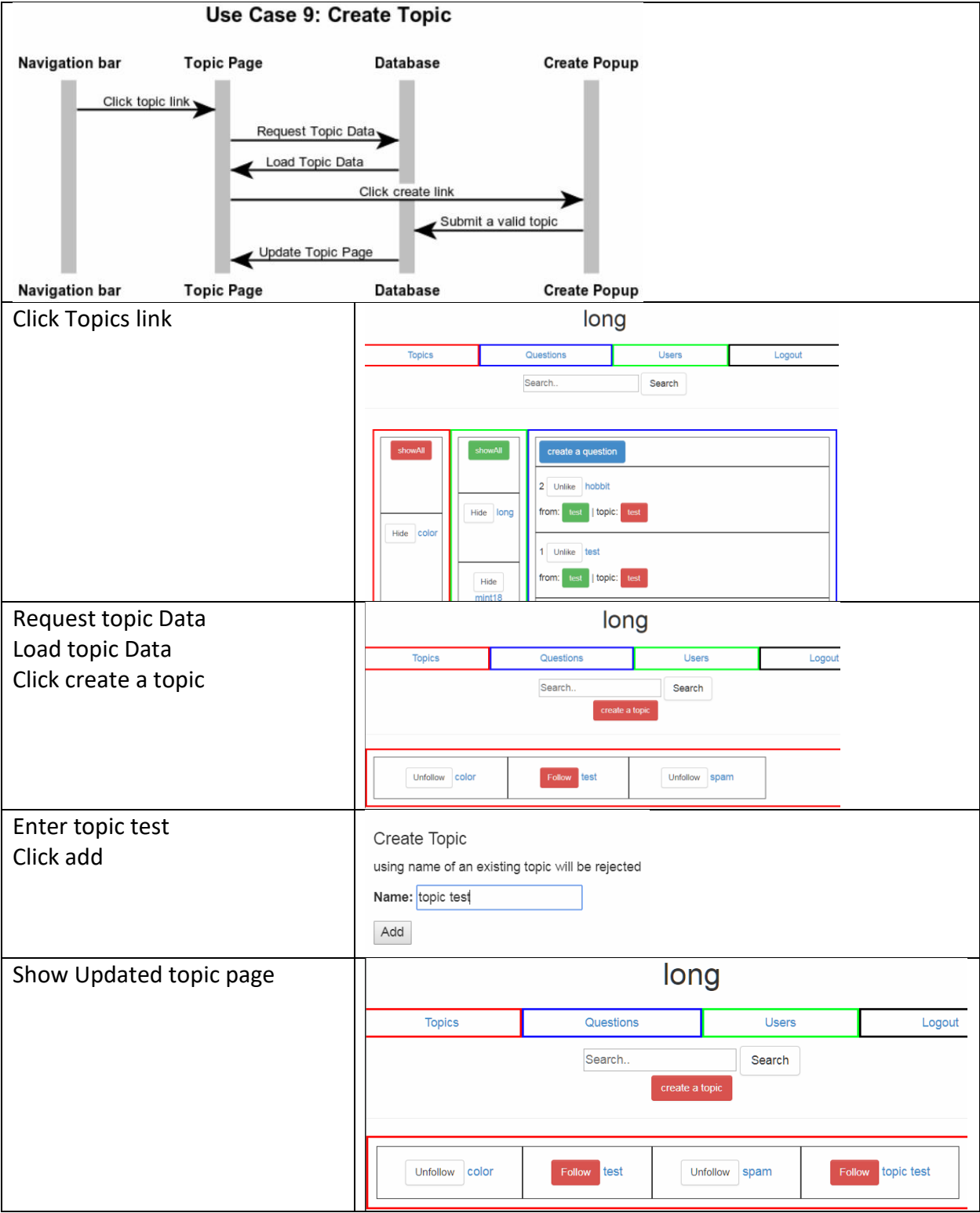
<b>Use Case 8: Search Box Filter Question</b>	
	
Click Questions link	

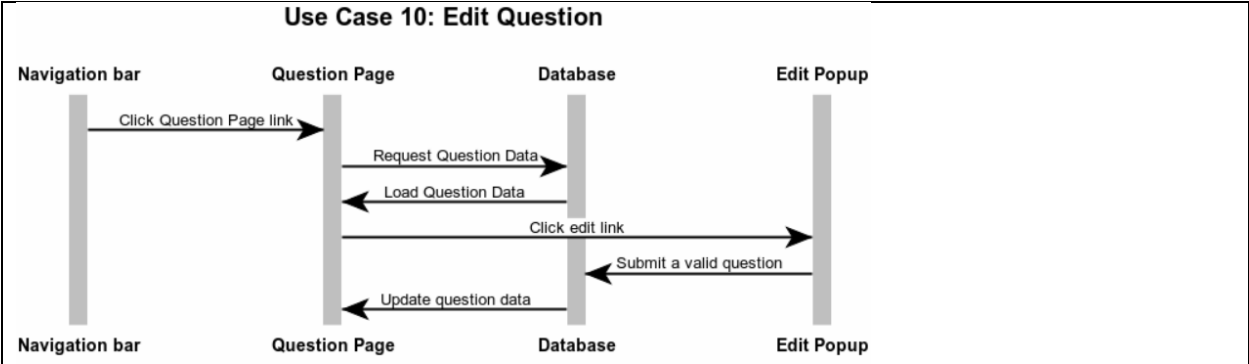
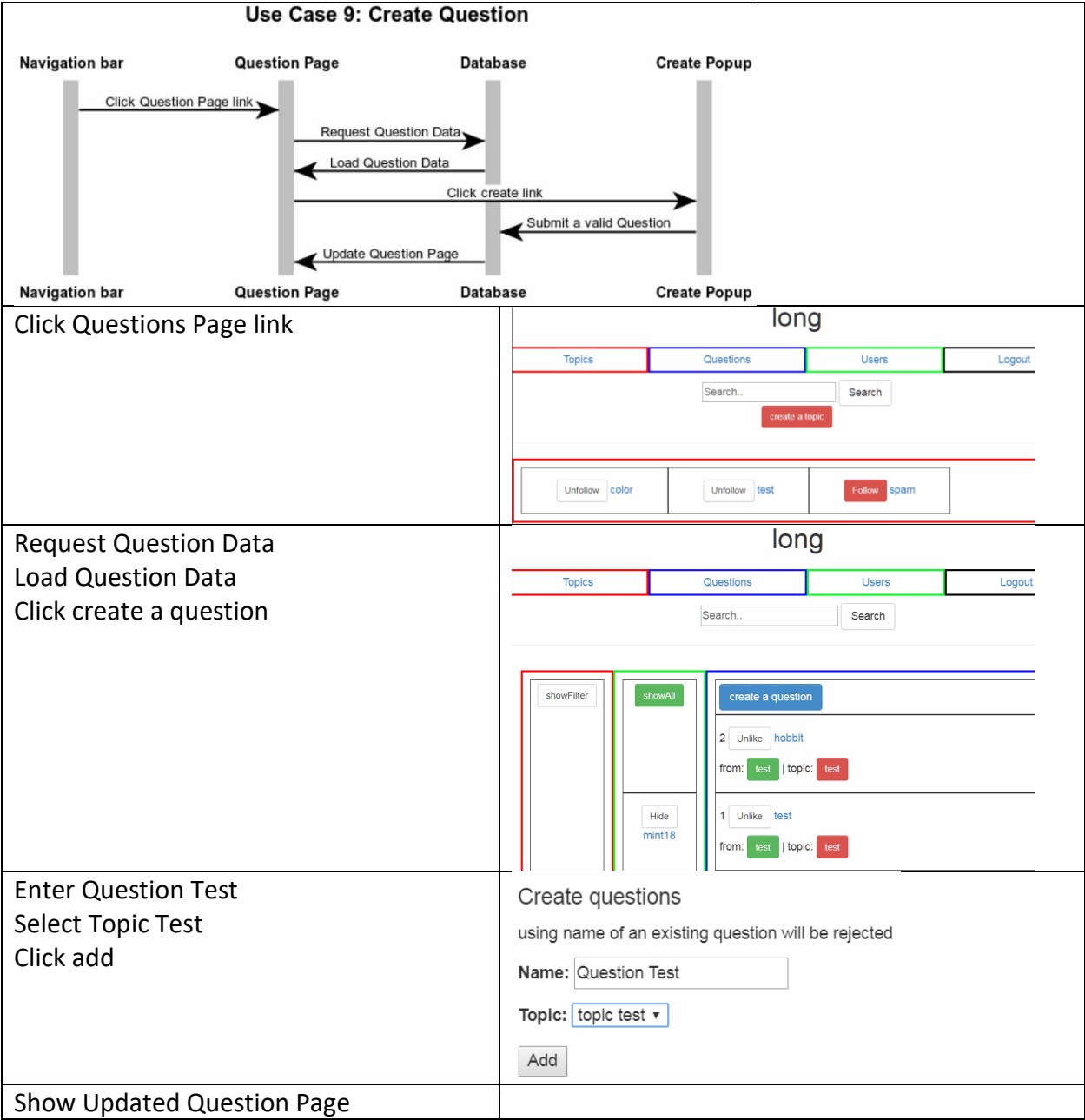
<p>Request Question Data Load Question Data Enter search substring</p> <ul style="list-style-type: none"> <li>o</li> </ul>	<p>long</p> <div> <a href="#">Topics</a> <a href="#">Questions</a> <a href="#">Users</a> <a href="#">Logout</a> </div> <div> <input type="text" value="Search.."/> <input type="button" value="Search"/> </div> <div> <div> <input type="button" value="showFilter"/> </div> <div> <input type="button" value="showAll"/> </div> <div> <input type="button" value="create a question"/> </div> <div> 2 Unlike <a href="#">hobbit</a>  from: <a href="#">test</a>   topic: <a href="#">test</a> </div> <div> 1 Unlike <a href="#">test</a>  from: <a href="#">test</a>   topic: <a href="#">test</a> </div> </div>
<p>Show question match substring</p>	<p>long</p> <div> <a href="#">Topics</a> <a href="#">Questions</a> <a href="#">Users</a> <a href="#">Logout</a> </div> <div> <input type="text" value="o"/> <input type="button" value="Search"/> </div> <div> <div> <input type="button" value="showAll"/> </div> <div> <input type="button" value="showAll"/> </div> <div> <input type="button" value="create a question"/> </div> <div> 2 Unlike <a href="#">hobbit</a>  from: <a href="#">test</a>   topic: <a href="#">test</a> </div> <div> 0 Like <a href="#">what is your favorite color?</a>  edit   delete   topic: <a href="#">color</a> </div> </div>



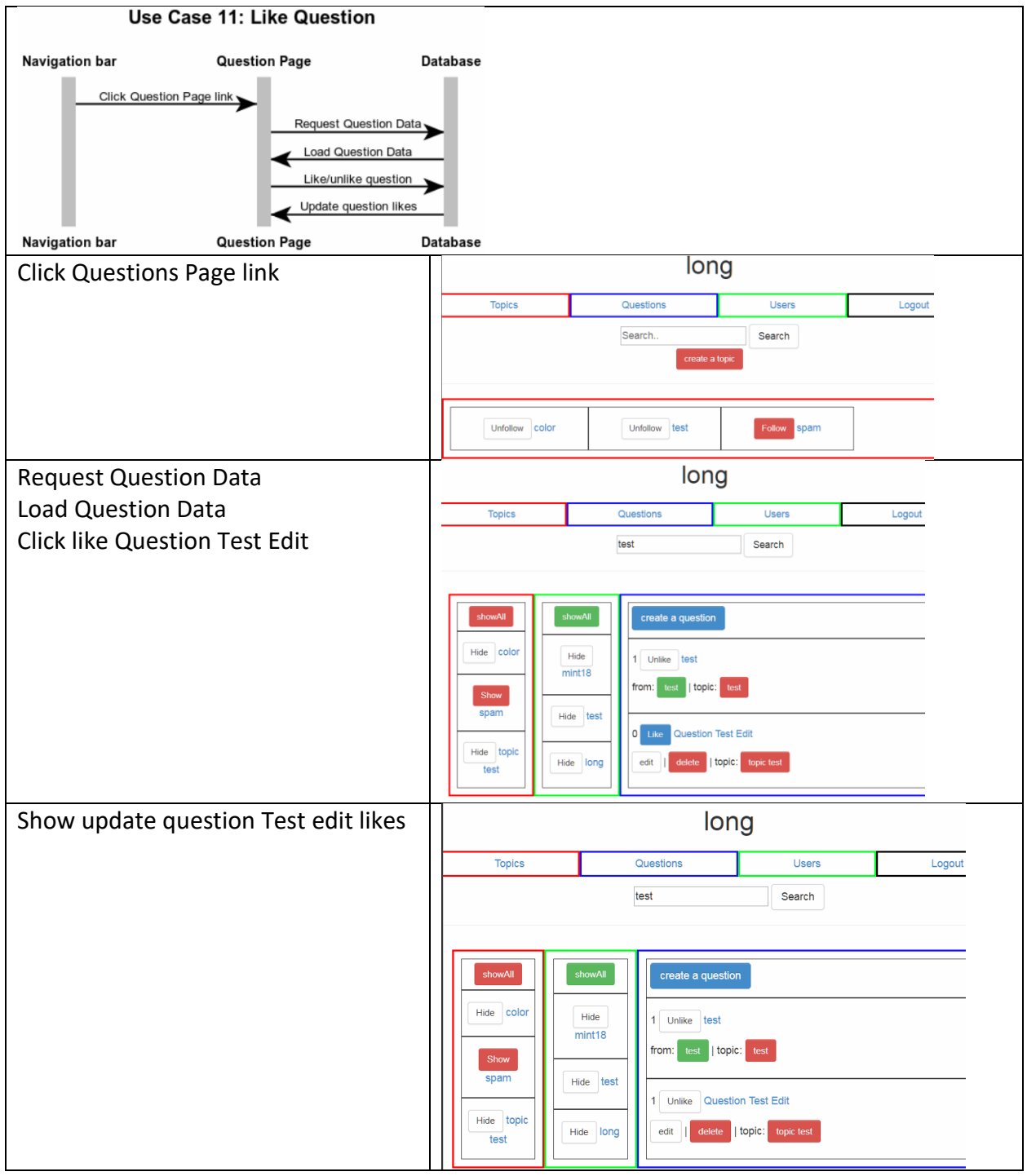
<p>Request Question Data</p> <p>Load Question Data</p> <p>Click question link</p> <ul style="list-style-type: none"><li>Click hobbit</li></ul>	
<p>request answer data</p> <p>load answer data</p> <p>Enter search substring</p> <ul style="list-style-type: none"><li>o</li></ul>	
<p>Show answers match substring</p>	

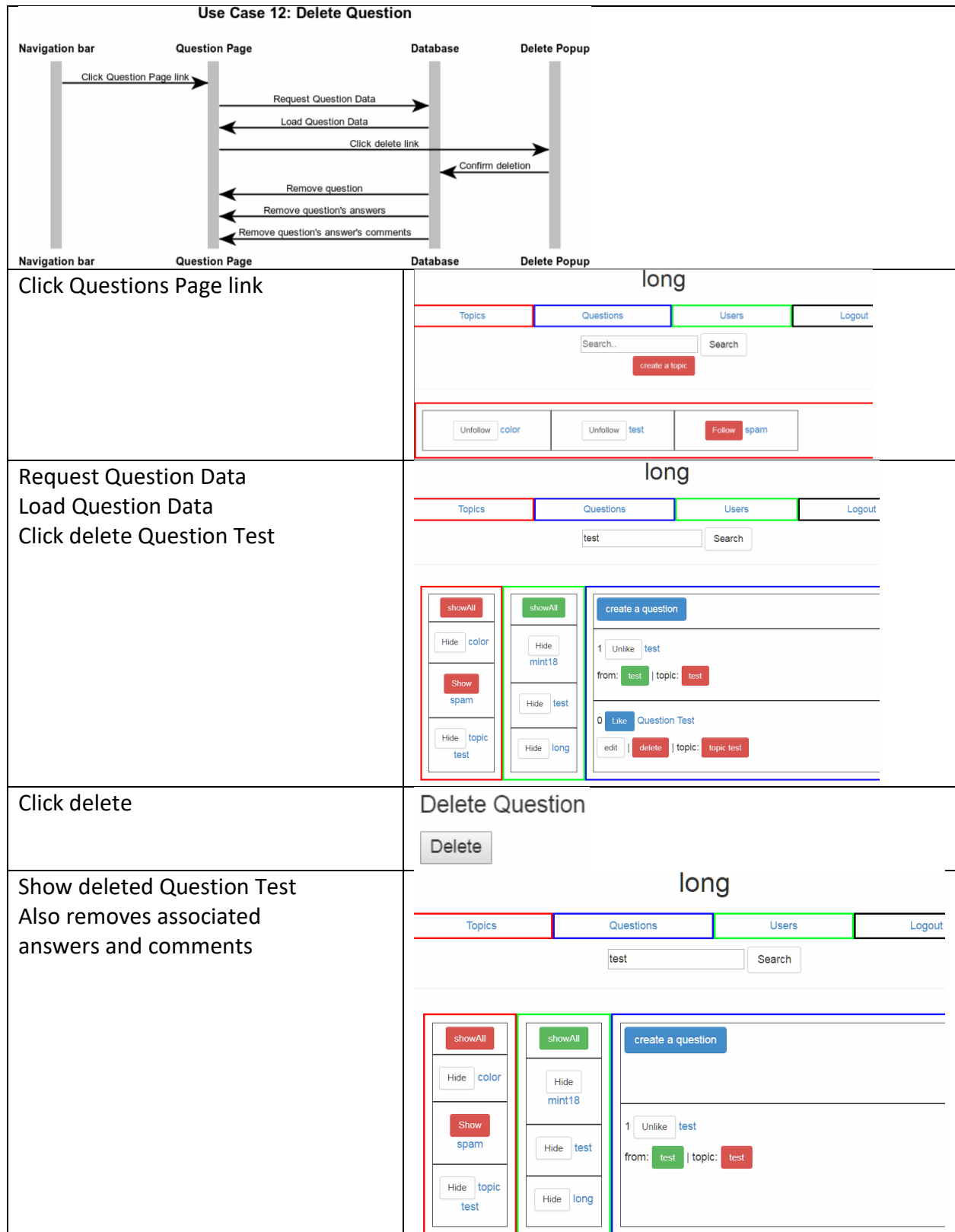




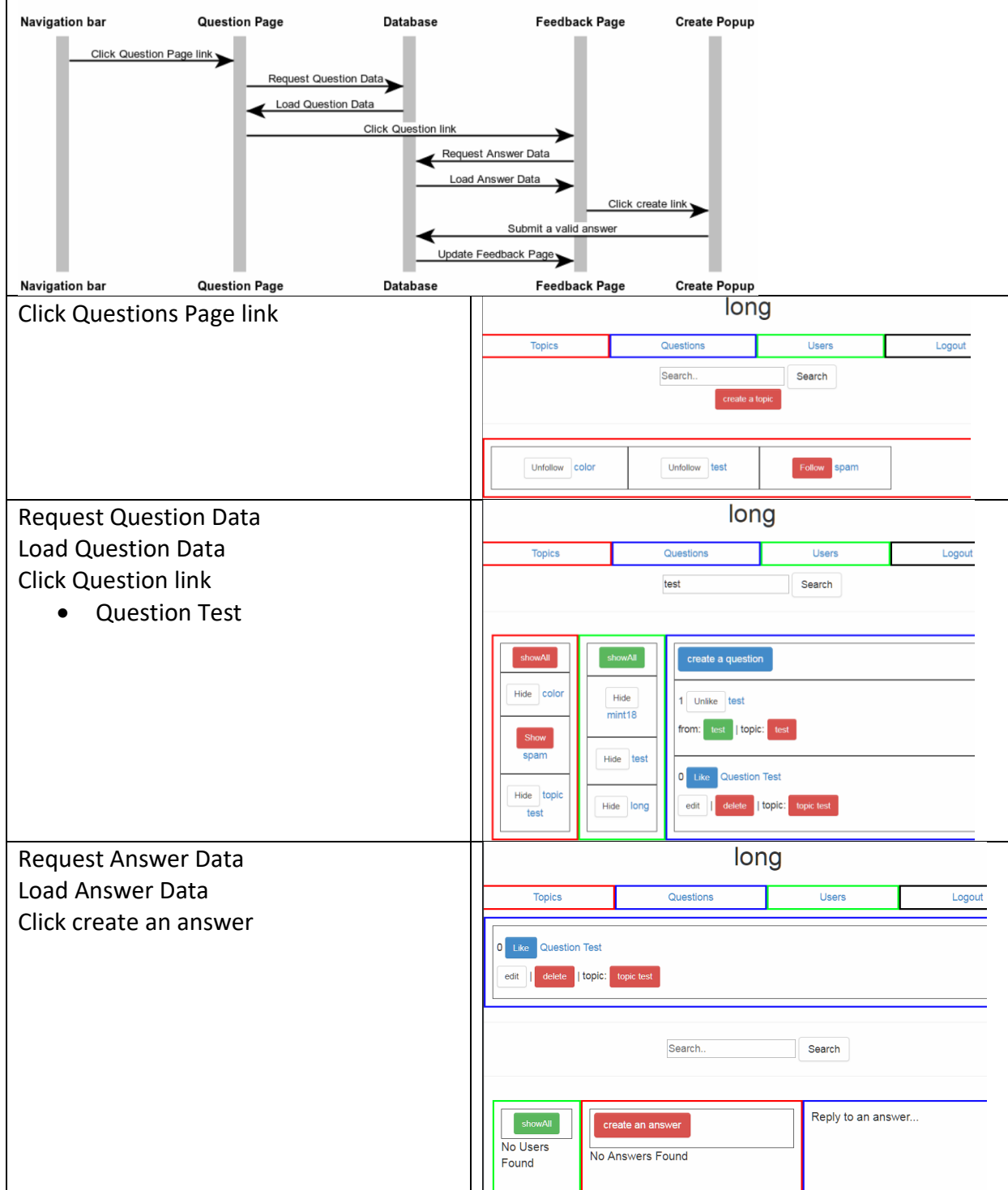


Click Questions Page link	<div>long</div> <div><div>Topics</div><div>Questions</div><div>Users</div><div>Logout</div></div> <div><div>Search..</div><div>Search</div></div> <div><div>create a topic</div></div> <div><div>Unfollow color</div><div>Unfollow test</div><div>Follow spam</div></div>
Request Question Data Load Question Data Click edit Question Test	<div>long</div> <div><div>Topics</div><div>Questions</div><div>Users</div><div>Logout</div></div> <div><div>test</div><div>Search</div></div> <div><div><div><div>showAll</div><div>Hide color</div><div>Show spam</div><div>Hide topic test</div></div><div><div>showAll</div><div>Hide mint18</div><div>Hide test</div><div>Hide long</div></div></div><div><div>create a question</div><div>1 Unlike test</div><div>from: test   topic: test</div><div>0 Like Question Test</div><div>edit delete   topic: topic test</div></div></div>
Enter Question Test Edit Select Topic Test Click add	<div>Edit Question</div> <div>Name: <input type="text" value="Question Test Edit"/></div> <div>Topic: <input type="text" value="topic test"/></div> <div><div>Update</div></div>
Show Updated Question Page	<div>long</div> <div><div>Topics</div><div>Questions</div><div>Users</div><div>Logout</div></div> <div><div>test</div><div>Search</div></div> <div><div><div><div>showAll</div><div>Hide color</div><div>Show spam</div><div>Hide topic test</div></div><div><div>showAll</div><div>Hide mint18</div><div>Hide test</div><div>Hide long</div></div></div><div><div>create a question</div><div>1 Unlike test</div><div>from: test   topic: test</div><div>0 Like Question Test Edit</div><div>edit delete   topic: topic test</div></div></div>

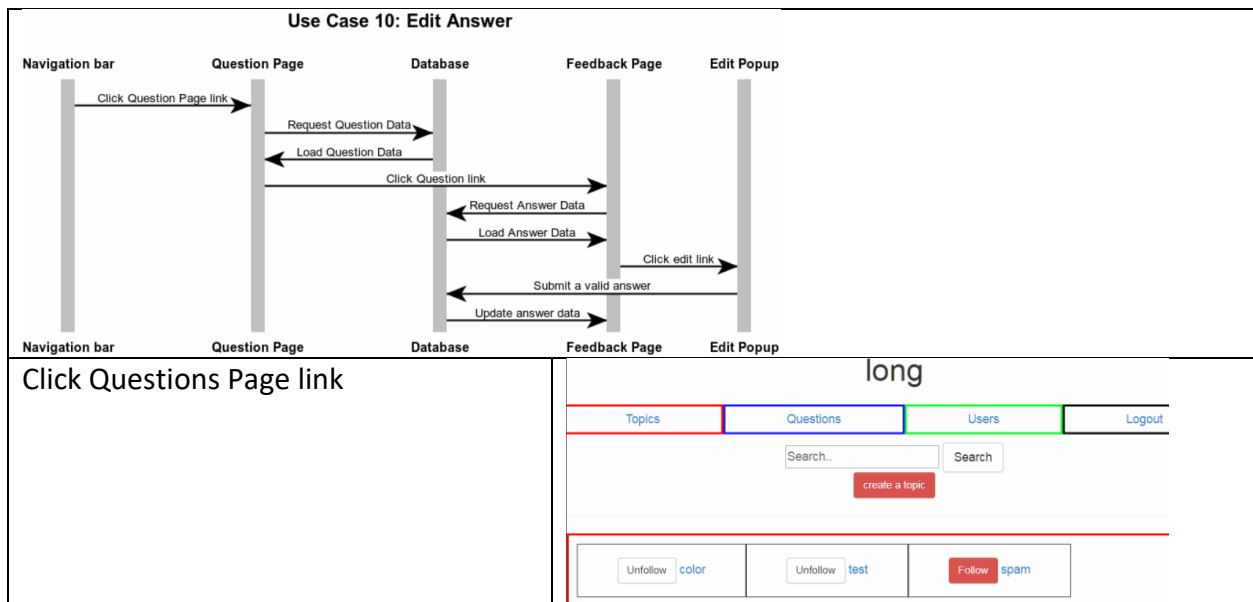




## Use Case 9: Create Answer



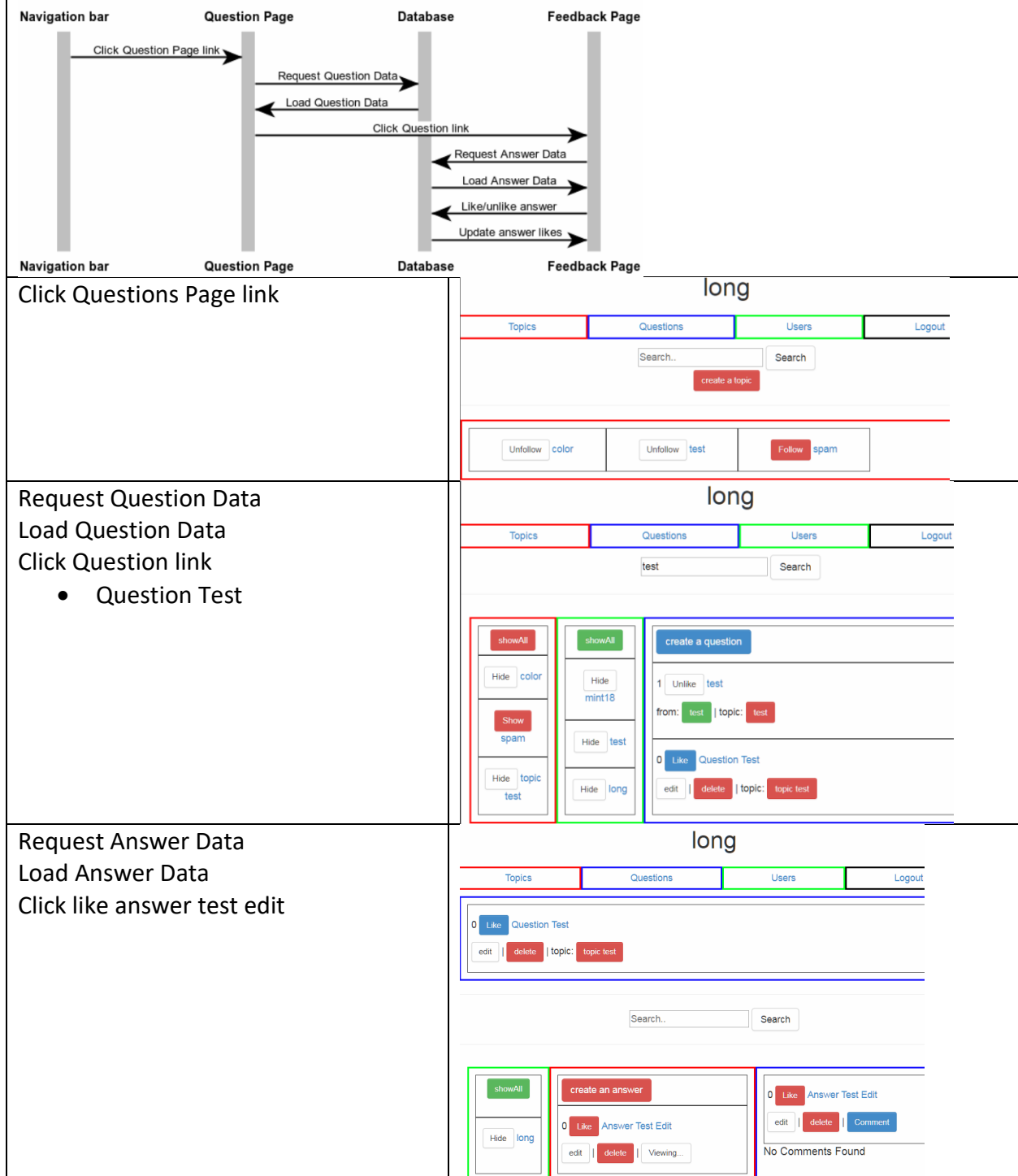
<p>Enter Answer Test</p> <p>Select Question Test</p> <p>Click add</p>	<p>Add Answer</p> <p>using name of an existing answer will be rejected</p> <p>Name: <input type="text" value="Answer Test"/></p> <p>Question: <input type="text" value="Question Test"/></p> <p><input type="button" value="Add"/></p>
<p>Show Updated Feedback Page</p>	<p>long</p> <p>Topics Questions Users Logout</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p> <p>Search.. Search</p> <p>showAll</p> <p>Hide long</p> <p>create an answer</p> <p>0 Like Answer Test</p> <p>edit delete Reply</p> <p>Reply to an answer...</p>



<p>Request Question Data Load Question Data Click Question link</p> <ul style="list-style-type: none"> <li>Question Test</li> </ul>	<p>long</p> <div> <div>Topics</div> <div>Questions</div> <div>Users</div> <div>Logout</div> </div> <div>test Search</div> <div> <div> <div>showAll</div> <div>Hide color</div> <div>Show spam</div> <div>Hide topic test</div> </div> <div> <div>showAll</div> <div>Hide mint18</div> <div>Hide test</div> <div>Hide long</div> </div> <div> <div>create a question</div> <div>1 Unlike test</div> <div>from: test topic: test</div> <div>0 Like Question Test</div> <div>edit delete topic: topic test</div> </div> </div>
<p>Request Answer Data Load Answer Data Click edit answer test</p>	<p>long</p> <div> <div>Topics</div> <div>Questions</div> <div>Users</div> <div>Logout</div> </div> <div>0 Like Question Test</div> <div>edit delete topic: topic test</div> <div>Search.. Search</div> <div> <div> <div>showAll</div> <div>Hide long</div> </div> <div> <div>create an answer</div> <div>0 Like Answer Test</div> <div>edit delete Viewing...</div> </div> <div> <div>0 Like Answer Test</div> <div>edit delete Comment</div> <div>No Comments Found</div> </div> </div>
<p>Enter Answer Test Edit Select Question Test Click add</p>	<p>Edit Answer</p> <p>Name: Answer Test Edit</p> <p>Question: Question Test</p> <p>Update</p>
<p>Show Updated Feedback Page</p>	<p>long</p> <div> <div>Topics</div> <div>Questions</div> <div>Users</div> <div>Logout</div> </div> <div>0 Like Question Test</div> <div>edit delete topic: topic test</div> <div>Search.. Search</div> <div> <div> <div>showAll</div> <div>Hide long</div> </div> <div> <div>create an answer</div> <div>0 Like Answer Test Edit</div> <div>edit delete Viewing...</div> </div> <div> <div>0 Like Answer Test Edit</div> <div>edit delete Comment</div> <div>No Comments Found</div> </div> </div>



### Use Case 11: Like a Answer

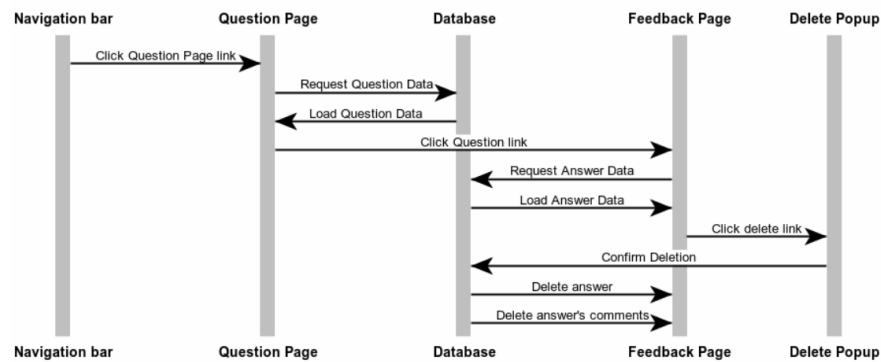


Show Updated answer test edit likes

long

Topics	Questions	Users	Logout
<div>0 Like Question Test</div> <div>edit delete   topic: topic test</div>			
<div>Search.. Search</div>			
<div>showAll</div> <div>Hide long</div>	<div>create an answer</div> <div>1 Unlike Answer Test Edit</div> <div>edit delete   Viewing...</div>	<div>1 Unlike Answer Test Edit</div> <div>edit delete   Comment</div> <div>No Comments Found</div>	

### Use Case 12: Delete Answer



Click Questions Page link

long

Topics	Questions	Users	Logout
<div>Search.. Search</div> <div>create a topic</div>			
<div>Unfollow color Unfollow test Follow spam</div>			

Request Question Data

Load Question Data

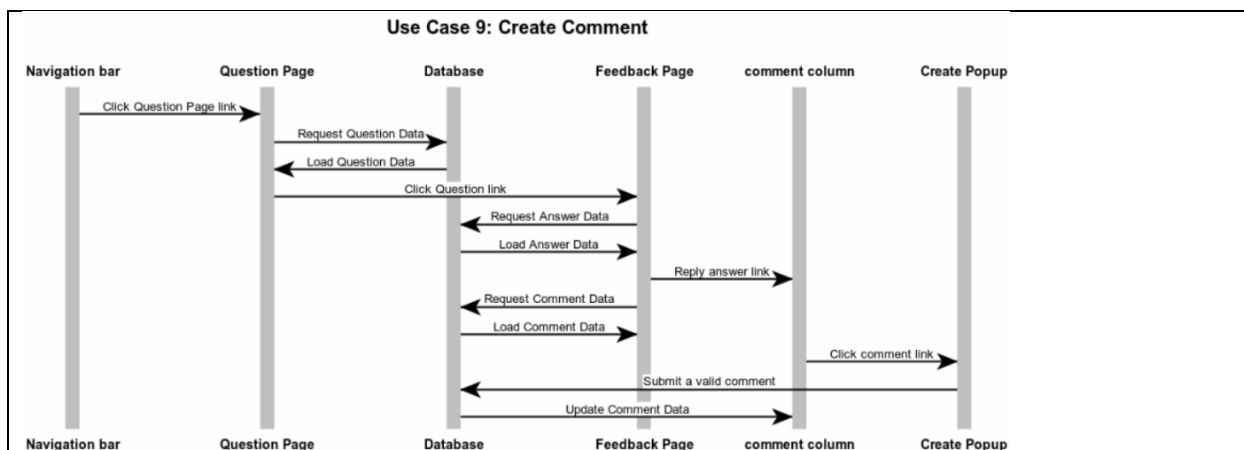
Click Question link

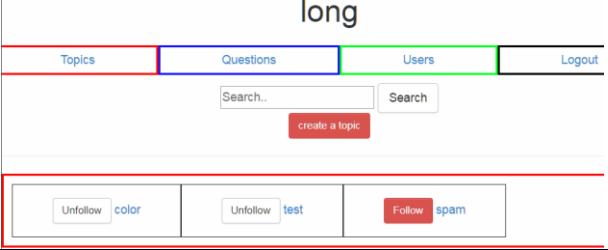

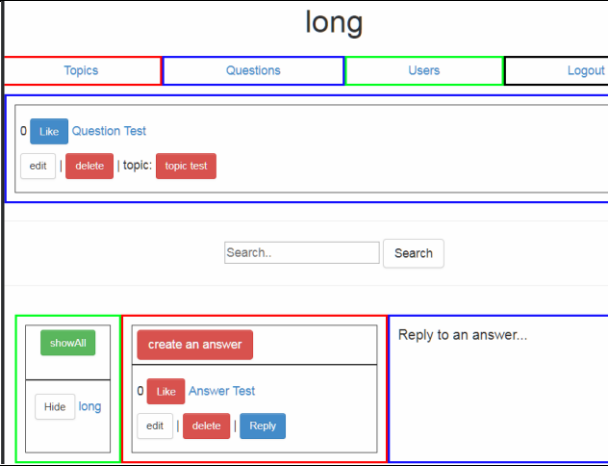
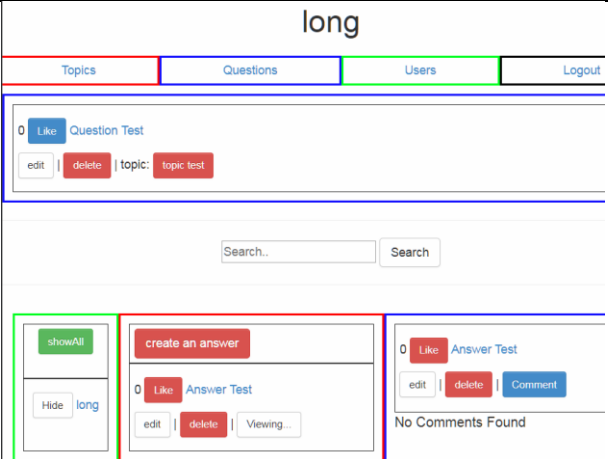
- Question Test

long

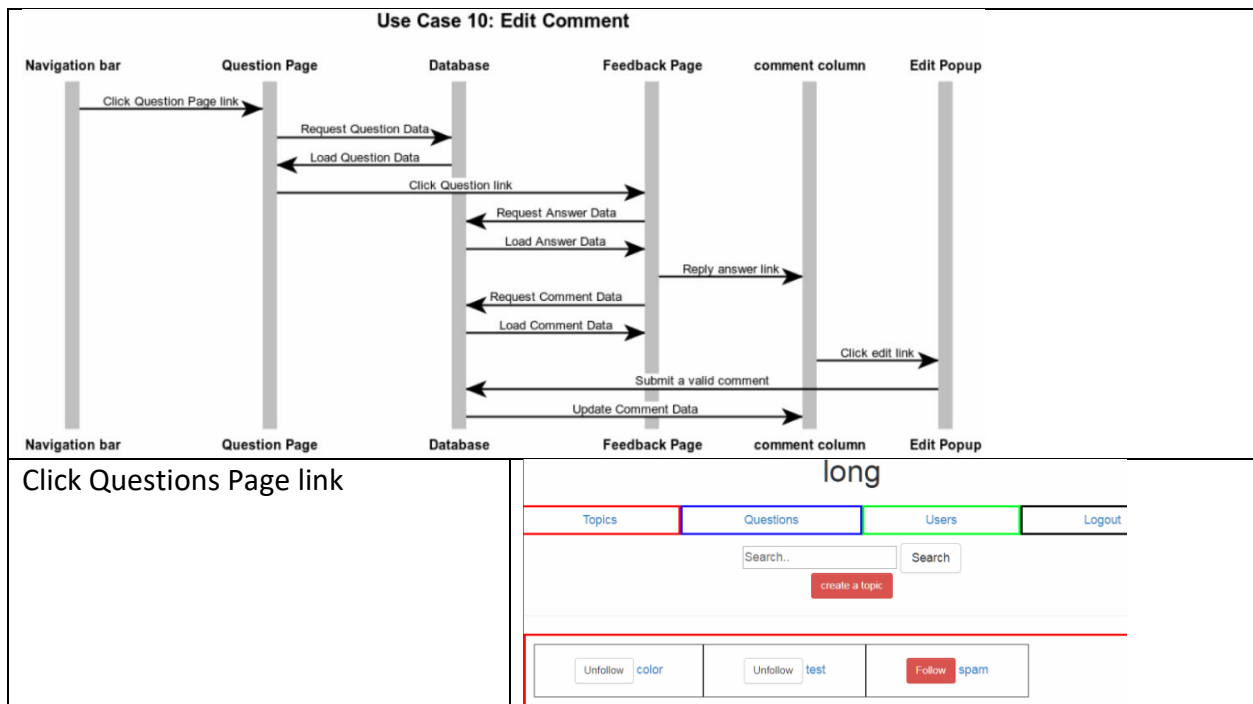
Topics	Questions	Users	Logout
<div>test Search</div>			
<div>showAll</div> <div>Hide color</div> <div>Show spam</div> <div>Hide topic test</div>	<div>showAll</div> <div>Hide mint18</div> <div>Hide test</div> <div>Hide long</div>	<div>create a question</div> <div>1 Unlike test</div> <div>from: test   topic: test</div> <div>0 Like Question Test</div> <div>edit delete   topic: topic test</div>	

<p>Request Answer Data Load Answer Data Click delete answer test</p>	<p>long</p> <p>Topics Questions Users Logout</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p> <p>Search.. Search</p> <p>showAll create an answer</p> <p>Hide long</p> <p>0 Like Answer Test</p> <p>edit delete Viewing ...</p> <p>0 Like Answer Test</p> <p>edit delete Comment</p> <p>No Comments Found</p>
<p>Click delete</p>	<p>Delete Answer</p> <p>Delete</p>
<p>Show updated deleted answer test Note: when you delete an answer you also delete comments that belong to that answer</p>	<p>long</p> <p>Topics Questions Users Logout</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p> <p>Search.. Search</p> <p>showAll create an answer</p> <p>No Users Found</p> <p>No Answers Found</p> <p>Reply to an answer...</p>

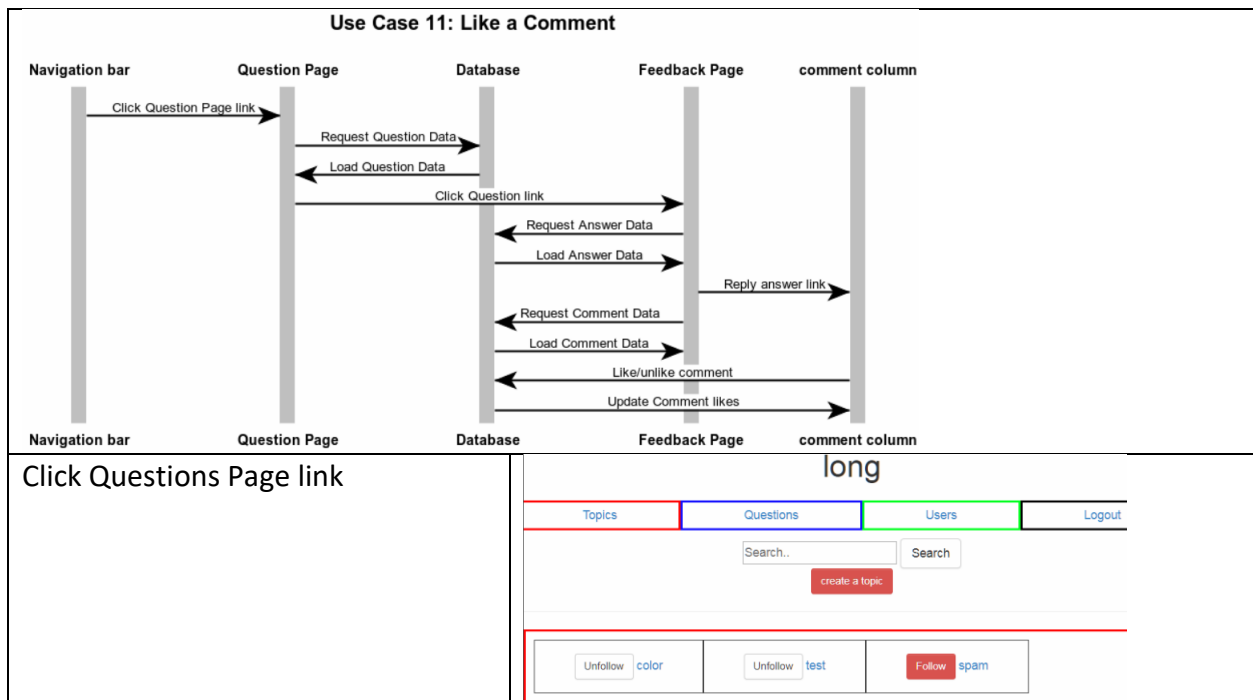
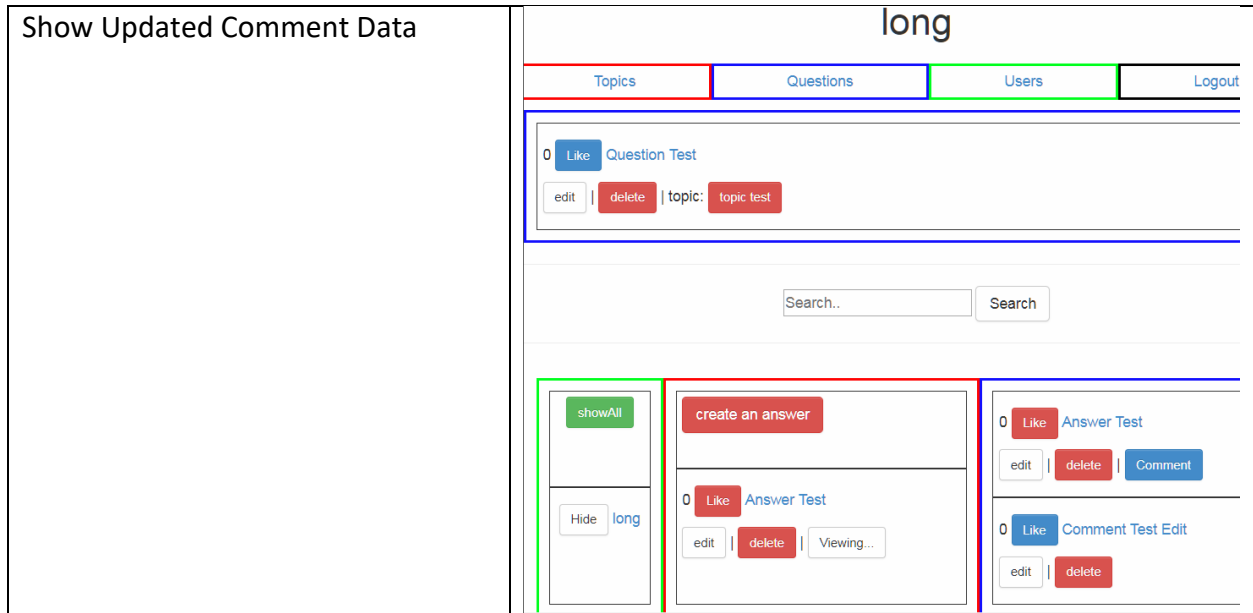


Click Questions Page link	
Request Question Data Load Question Data Click Question link <ul style="list-style-type: none"> <li>Question Test</li> </ul>	
Request Answer Data Load Answer Data Click reply to answer Test	
Show comment column Click comment	

Enter comment test Select Answer Test Click add	<div> <div>Add Comment</div> <div>           Name: <input type="text" value="Comment Test"/> </div> <div>           Answer: <input type="text" value="Answer Test"/> </div> <div> <input type="button" value="Add"/> </div> </div>
Show Updated Comment Data	<div> <div>long</div> <div> <div>Topics</div> <div>Questions</div> <div>Users</div> <div>Logout</div> </div> <div> <div>0 Like Question Test</div> <div> <input type="button" value="edit"/> <input type="button" value="delete"/> <div>topic: <input type="text" value="topic test"/></div> </div> </div> <div> <input type="text" value="Search.."/> <input type="button" value="Search"/> </div> <div> <div> <input type="button" value="showAll"/> </div> <div> <input type="button" value="create an answer"/> </div> <div> <div>0 Like Answer Test</div> <div> <input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="Viewing..."/> </div> </div> <div> <div>0 Like Answer Test</div> <div> <input type="button" value="edit"/> <input type="button" value="delete"/> <input type="button" value="Comment"/> </div> </div> <div> <div>0 Like Comment Test</div> <div> <input type="button" value="edit"/> <input type="button" value="delete"/> </div> </div> </div> </div>



<p>Request Question Data Load Question Data Click Question link</p> <ul style="list-style-type: none"> <li>Question Test</li> </ul>	<p>long</p> <p>Topics Questions Users Logout</p> <p>test Search</p> <p>create a question</p> <p>1 Unlike test</p> <p>from: test topic: test</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p>
<p>Request Answer Data Load Answer Data Click reply to answer Test</p>	<p>long</p> <p>Topics Questions Users Logout</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p> <p>Search.. Search</p> <p>create an answer</p> <p>0 Like Answer Test</p> <p>edit delete Reply</p> <p>Reply to an answer...</p>
<p>Show comment column Click Edit</p>	<p>long</p> <p>Topics Questions Users Logout</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p> <p>Search.. Search</p> <p>create an answer</p> <p>0 Like Answer Test</p> <p>edit delete Viewing...</p> <p>0 Like Answer Test</p> <p>edit delete Comment</p> <p>No Comments Found</p>
<p>Enter Comment Test Edit Select Answer Test Click add</p>	<p>Edit Comment</p> <p>Name: Comment Test Edit</p> <p>Answer: Answer Test ▾</p> <p>Update</p>



<p>Request Question Data Load Question Data Click Question link</p> <ul style="list-style-type: none"> <li>Question Test</li> </ul>	<p>long</p> <p>Topics Questions Users Logout</p> <p>test Search</p> <p>showAll showAll create a question</p> <p>1 Unlike test</p> <p>from: test topic: test</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p>
<p>Request Answer Data Load Answer Data Click reply to answer Test</p>	<p>long</p> <p>Topics Questions Users Logout</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p> <p>Search.. Search</p> <p>showAll create an answer Reply to an answer...</p> <p>0 Like Answer Test</p> <p>edit delete Reply</p>
<p>Show comment column Click Like Comment Test Edit</p>	<p>long</p> <p>Topics Questions Users Logout</p> <p>0 Like Question Test</p> <p>edit delete topic: topic test</p> <p>Search.. Search</p> <p>showAll create an answer</p> <p>0 Like Answer Test</p> <p>edit delete Viewing...</p> <p>0 Like Answer Test</p> <p>edit delete Comment</p> <p>0 Like Comment Test Edit</p> <p>edit delete</p>



Show Updated Comment Likes

long

Topics

Questions

Users

Logout

0 Like Question Test

edit delete | topic: topic test

Search..

Search

showAll

create an answer

0 Like Answer Test

edit delete | Viewing...

0 Like Answer Test

edit delete | Comment

1 Unlike Comment Test Edit

edit delete

Use Case 12: Delete Comment

Navigation bar

Question Page

Database

Feedback Page

comment column

delete Popup

Navigation bar

Question Page

Database

Feedback Page

comment column

delete Popup

Click Questions Page link

long

Topics

Questions

Users

Logout

Search..

Search

create a topic

Unfollow color

Unfollow test

Follow spam

Request Question Data  
Load Question Data  
Click Question link

long

Topics

Questions

Users

Logout

test

Search

showAll

showAll

create a question

1 Unlike test

from: test | topic: test

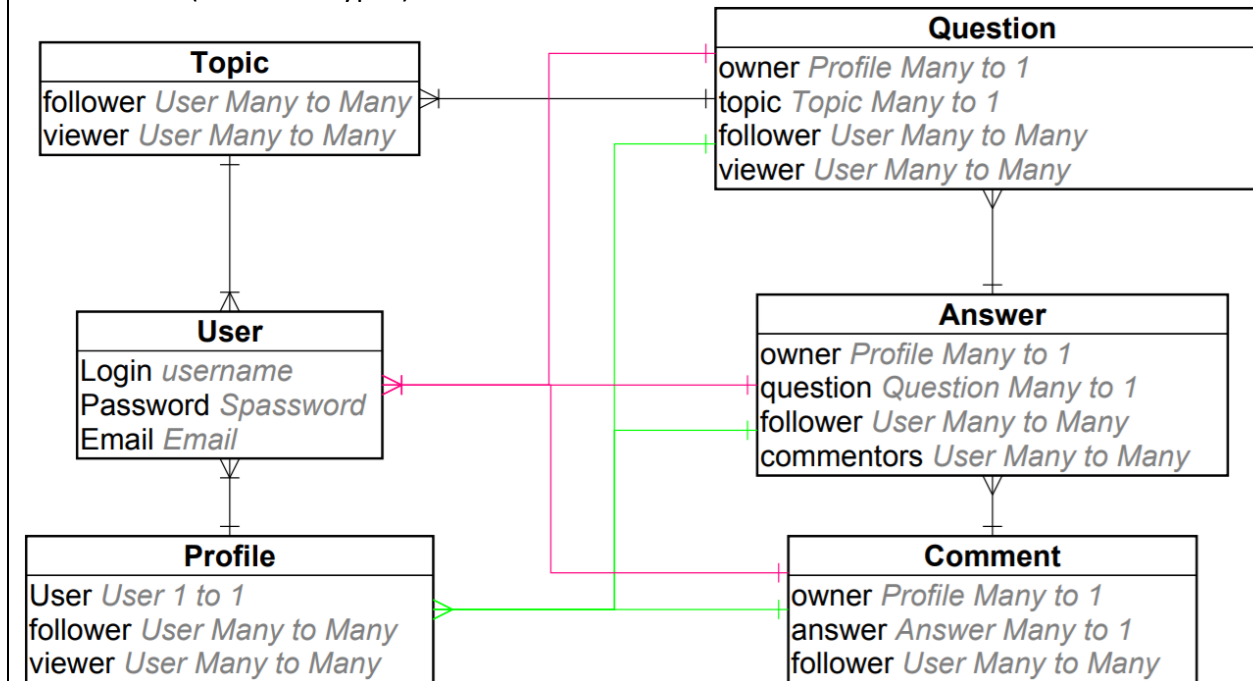
0 Like Question Test

edit delete | topic: topic test

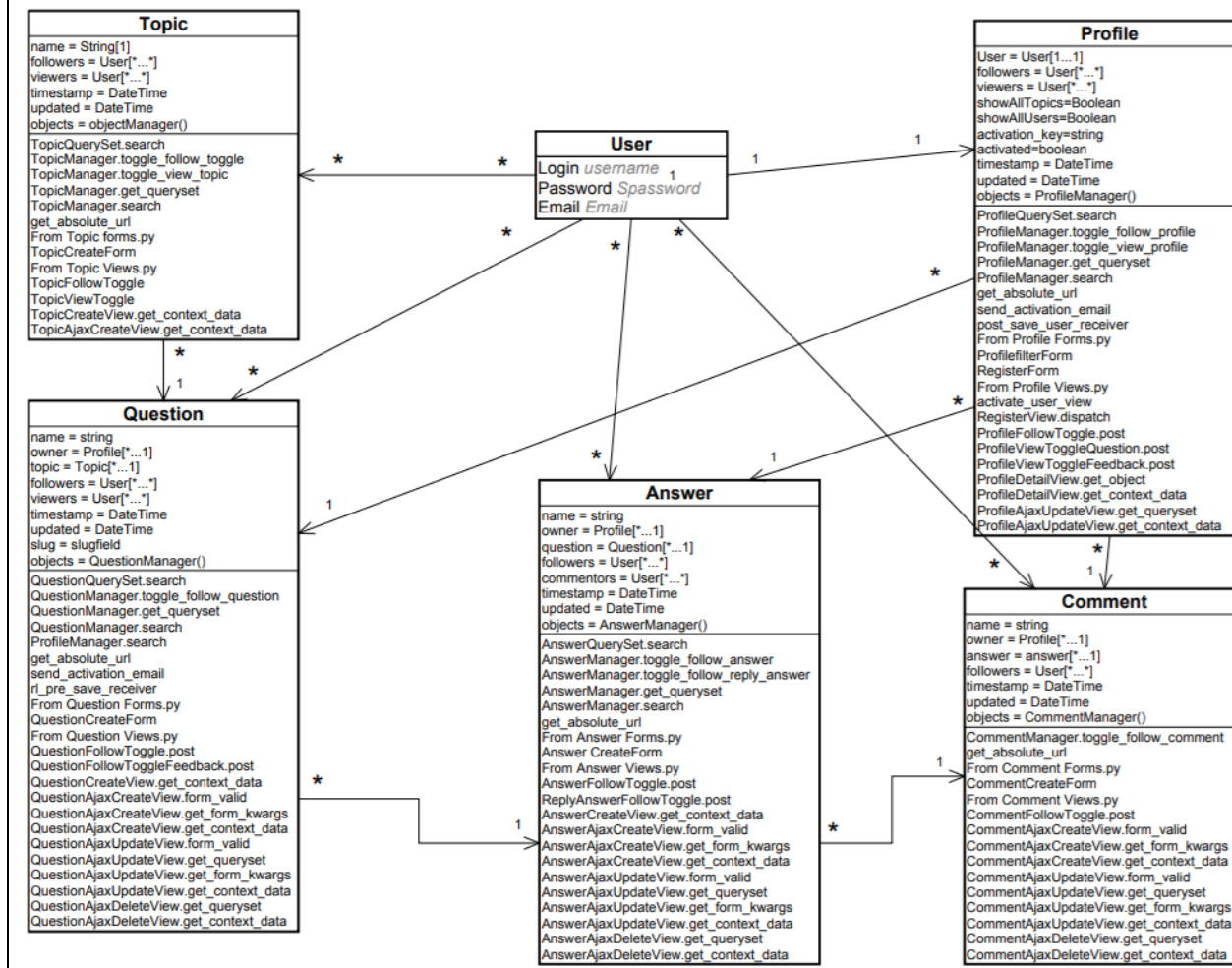
- Question Test

<p>Request Answer Data Load Answer Data Click reply to answer Test</p>	<div><div>long</div><div><div>Topics</div><div>Questions</div><div>Users</div><div>Logout</div></div><div><div>0 Like Question Test</div><div>edit   delete   topic: topic test</div></div><div><div>Search..</div><div>Search</div></div><div><div><div>showAll</div><div>Hide long</div></div><div><div>create an answer</div><div>0 Like Answer Test</div><div>edit   delete   Reply</div></div><div>Reply to an answer...</div></div></div>
<p>Show comment column Click Delete Comment Test edit</p>	<div><div>long</div><div><div>Topics</div><div>Questions</div><div>Users</div><div>Logout</div></div><div><div>0 Like Question Test</div><div>edit   delete   topic: topic test</div></div><div><div>Search..</div><div>Search</div></div><div><div><div>showAll</div><div>Hide long</div></div><div><div>create an answer</div><div>0 Like Answer Test</div><div>edit   delete   Viewing...</div></div><div><div>0 Like Answer Test</div><div>edit   delete   Comment</div><div>0 Like Comment Test Edit</div><div>edit   delete</div></div></div></div>
<p>Click Delete</p>	<div><div>Delete Comment</div><div>Delete</div></div>
<p>Show Deleted Comment</p>	<div><div>long</div><div><div>Topics</div><div>Questions</div><div>Users</div><div>Logout</div></div><div><div>0 Like Question Test</div><div>edit   delete   topic: topic test</div></div><div><div>Search..</div><div>Search</div></div><div><div><div>showAll</div><div>Hide long</div></div><div><div>create an answer</div><div>0 Like Answer Test</div><div>edit   delete   Viewing...</div></div><div><div>0 Like Answer Test</div><div>edit   delete   Comment</div><div>No Comments Found</div></div></div></div>

Complete ER diagram for the DB design such as adding cardinalities for the relations, and add table details (fields and types).



Complete the class diagram, and add class details, including fields and methods/functions.



## Conclusion

- Project works, but is not good enough for public use...

## Future work

- Refactor project using react.js to improve ajax performance
- Be able to add pictures to questions and answers
- Be able to add, edit, delete post within the field instead of a popup

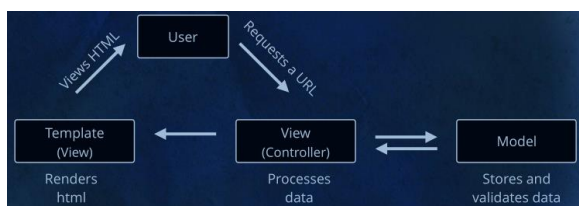
## Appendix of source codes

- Web development has too many modules
- listing them out sequential will make it difficult to trace modules and logic
- I will instead include my readme that explains the source code as a substitute.

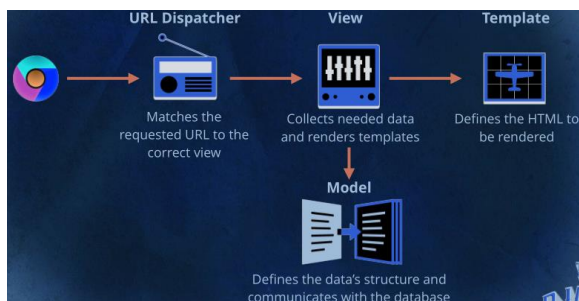
This readme explains how Django web frameworks and an example implementation.

MVC, model view controller is a software design pattern. The model is a database and defines the class objects. The view is the page layout and items, what the user sees. The controller has functions that take in input from users and manipulates the model and view.

I had to learn Django web framework. Django name their controller “view”, which mislead people thinking the view is suppose to be a view, but it’s actually the controller. The view is named template, and the model is named model.

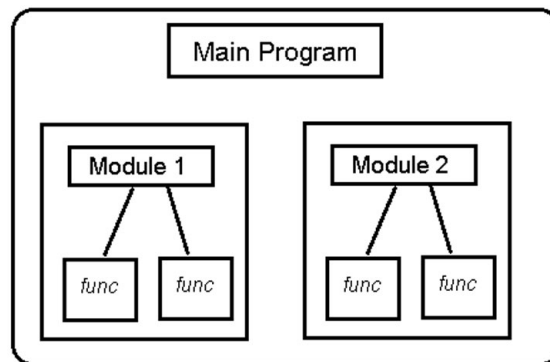


When a user inserts inputs or makes a request a URL, it goes to the url dispatcher to find the view that matches the url, then the view manipulates the model, add, delete, edit data and then sends a response URL to the dispatcher which is sent to the view then is rendered by template.



A Website can have different types of pages and features. It is easier to separate the different features than to have all the different features in one file. Django project supports different apps. We make an app for every different feature of the project.

This is called modularity. Which allows us to call the module in the main program, instead of writing the same code multiple times.



When I make a new app.

I got to the command line.

I go to the root directory of my Django project

I run command: `python manage.py startapp appname`

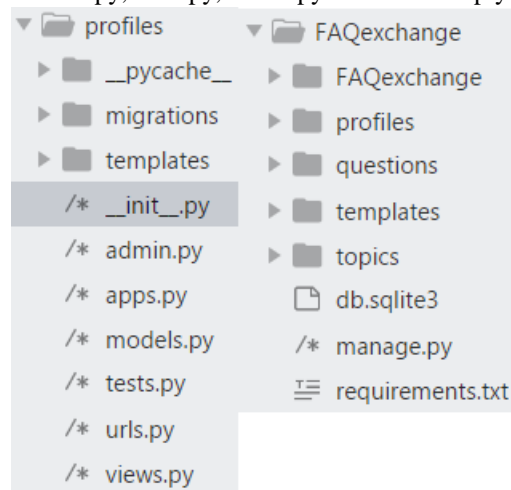
This creates the app folder in the root directory.

For example, in my root, I have 3 apps, profiles, questions, topics.

The profile is the app I just created.

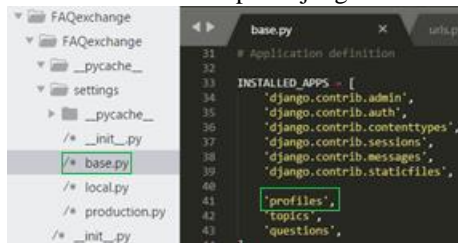
by default it comes with `__init__.py` (we need this here so python compiler can ignore resolving names that may cause compilation errors)

<https://stackoverflow.com/questions/448271/what-is-init-py-for> it also comes with `admin.py`, `apps.py`, `models.py`, `tests.py`, `views.py` which are empty.

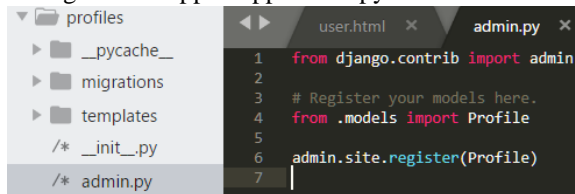


1. I add the app to my `FAQexchange/settings/base.py`  
note: `__pycache__` is auto-generated by Django to

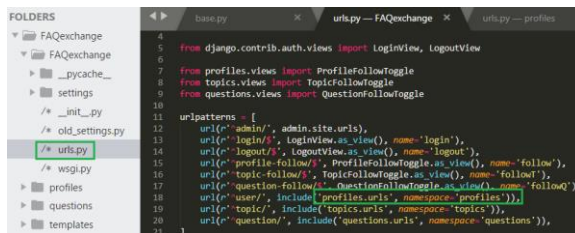
that have files to compile Django code.



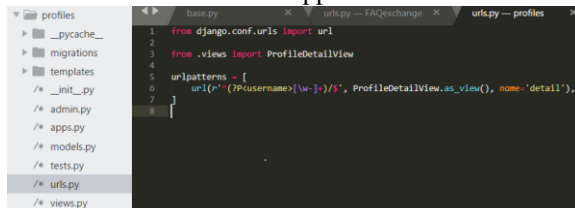
2.I register the app in app/admin.py



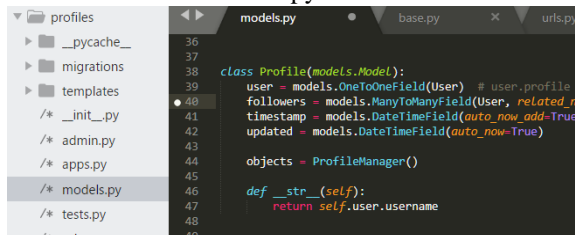
3.Next I add the urls to the root url



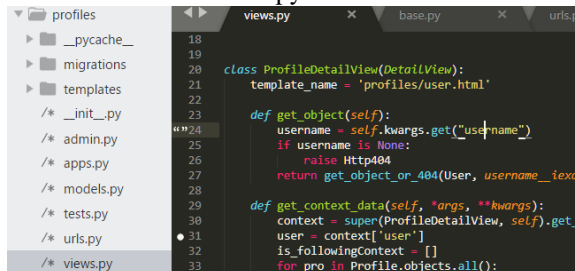
4.Then I add the url to the app url



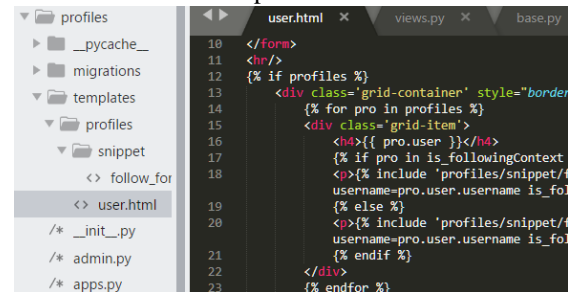
5.Then I make the models.py file



6.Then I make the views.py file



7.Then I make the template file



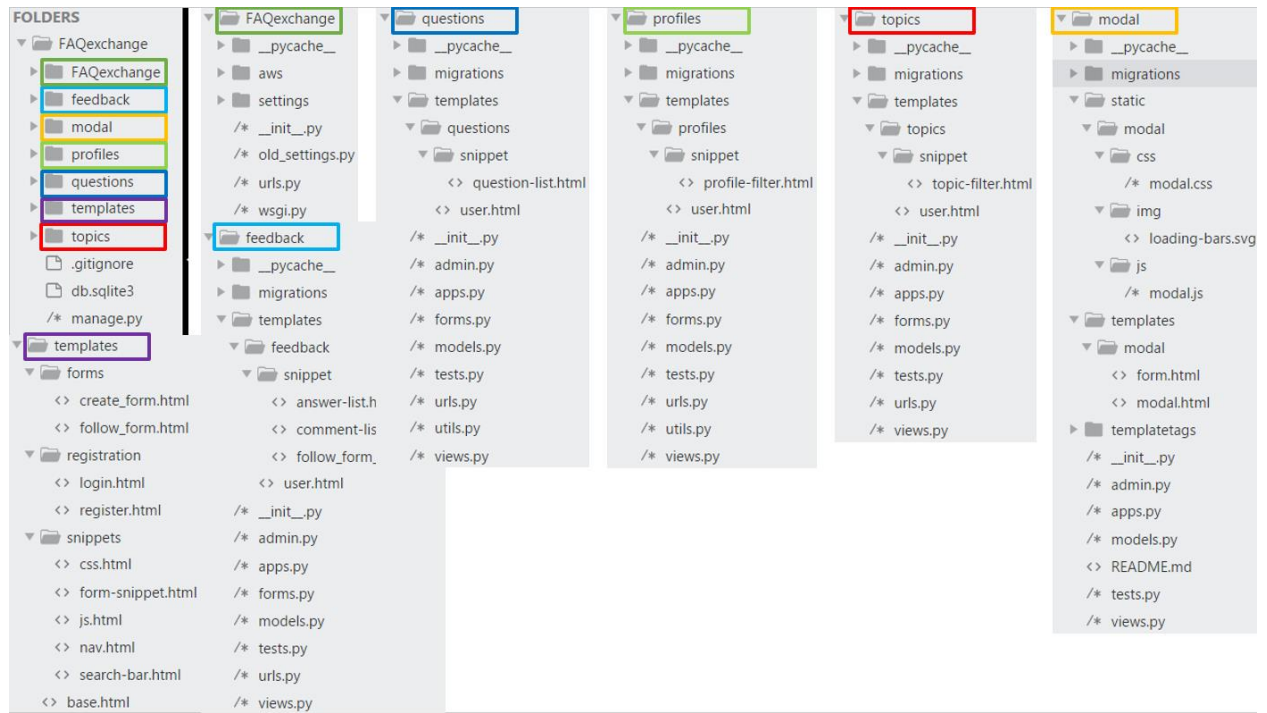
8.Then I go back to Django project directory  
update the database with new model via:

python manage.py makemigrations  
python manage.py migrate

My project has a total of 5 apps

- Profiles
- Topics
- Questions
- Feedback
- Modal (API for djangoAJAX)

All 5 apps have the same django MVC data flow as the profile app example.



This is the full directory tree of my project and web apps.