

**Project Title : Surway – The Best Way to Survey**  
**An Online Survey Management System**

## Table of Contents

<b>Sr.No</b>	<b>Contents</b>	<b>Page No.</b>
1.	Abstract	3
2.	Introduction	4
3.	System Requirements 3.1. Hardware 3.2. Software	5
4.	System Design 4.1. Project Diagram 4.2. Database Tables	6
5.	System Implementation 5.1. Flow of Website 5.2. Sample Screenshots 5.3. How to run the project	10
6.	Conclusion	28

## Abstract

Online survey or internet survey, is one of the most popular data-collection sources, where a set of survey questions is sent out to a target sample and the members of this sample can respond to the questions over the world wide web. Respondents receive online surveys via various mediums such as email, embedded over website, social media etc.

Organizations implement online surveys to use the internet in order to gain insights and feedback about upcoming products or services, change in marketing strategies, enhancement in current features etc. With the progress made by the internet, more and more organizations depend on the data received and analysed from online surveys to make integral changes in their functioning. For efficient data collection, organizations must choose an advanced and efficient online survey platform.

Online surveys have a greater reach than other types of market research techniques. Think about it: it's far simpler to send a survey to thousands of people via the Internet than it is to mail a copy to everyone individually or to try to interview respondents face-to-face. Indeed, companies can easily screen and select survey participants based on varying parameters according to their needs and then send a link to a survey to anyone (with a email address) in any location at any time.

The proposed Online Survey System will serve as a platform where a surveyor can raise a survey questionnaire and the users can post their answers and viewpoints. The posted data are collected and the system is designed in such a way that it automatically adds the votes to each alternative and displays the result of the survey as well.

## Introduction

Online surveys are not feasible for accessing the entire population. Their use is limited to those with email and internet access and those lacking such access, compared with those who have access, are likely, for instance, to have lower levels of education and income, lower rates of literacy and computer literacy, to be older and to over-represent certain ethnic groups. This inherent coverage bias is a major disadvantage. It is difficult to derive a scientific sample of the wider population for an online survey because there is no suitable sampling frame available. Sampling frames (e.g., email lists) are typically available only for closed populations or specialised target groups.

When it comes down to it, online surveys are usually more accurate. Since respondents record their own answers, there is no opportunity for an interviewer or facilitator to misinterpret a response, and there is a better chance that respondents will be fully honest. After all, it's a lot easier for people to anonymously pen their thoughts than it is for them to tell those thoughts to someone in person!

The proposed Online Survey System will serve as a platform where a surveyor can raise a survey questionnaire and the users can post their answers and viewpoints anonymously and also anyone can take this survey, as the user doesn't specifically require an email address. This will therefore help the surveyor capture a wider audience. The posted data/survey results are collected and the system is designed in such a way that it automatically adds the votes to each alternative and displays the result of the survey as well.

## System Requirements

### Hardware

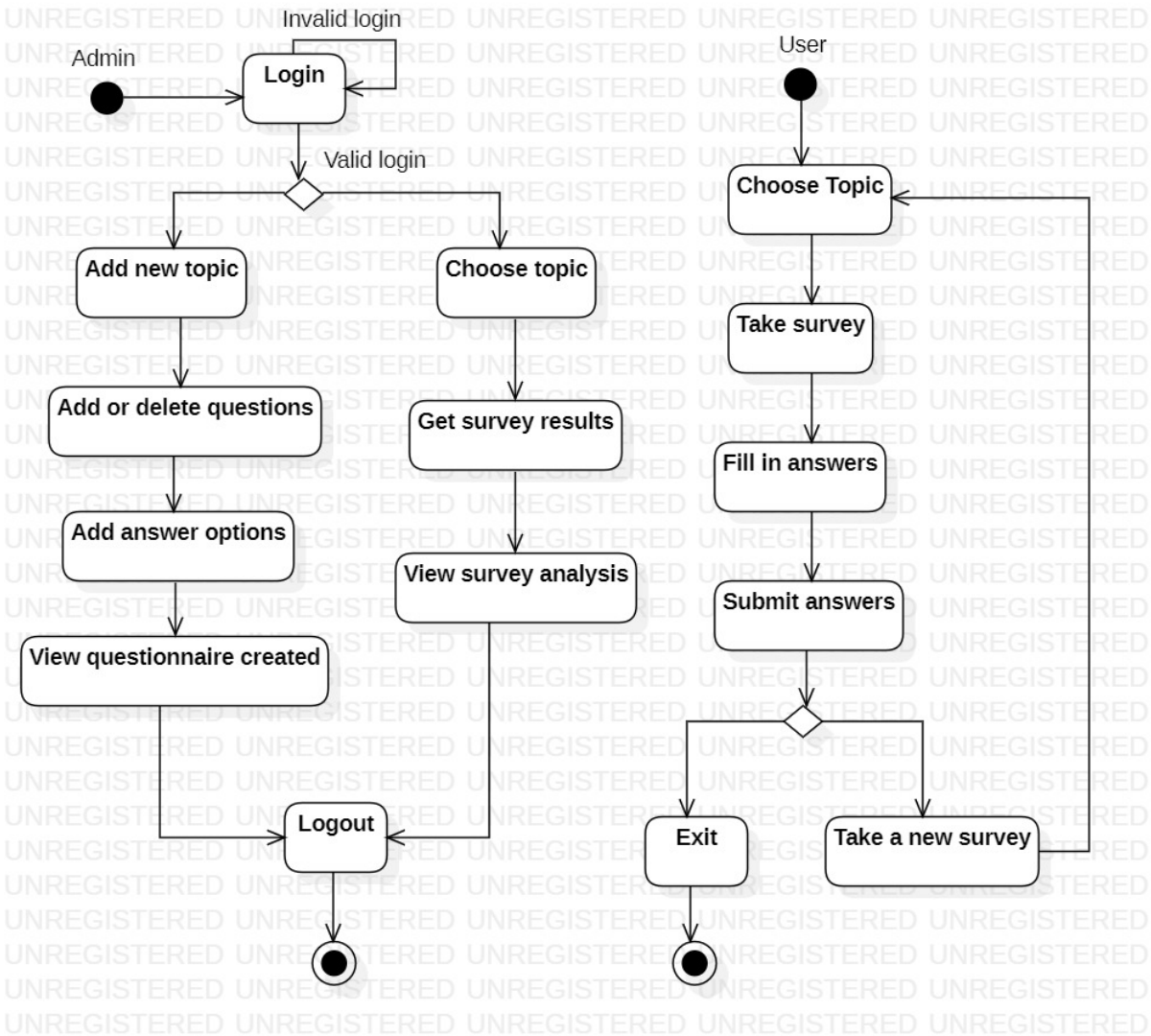
- Processor: Pentium-IV(Processor).
- RAM: 256 MB
- Speed: 1.1 Ghz
- Hard Disk: 20 GB
- Key Board: Standard Windows Keyboard
- Mouse: Two / Three Button Mouse

### Software

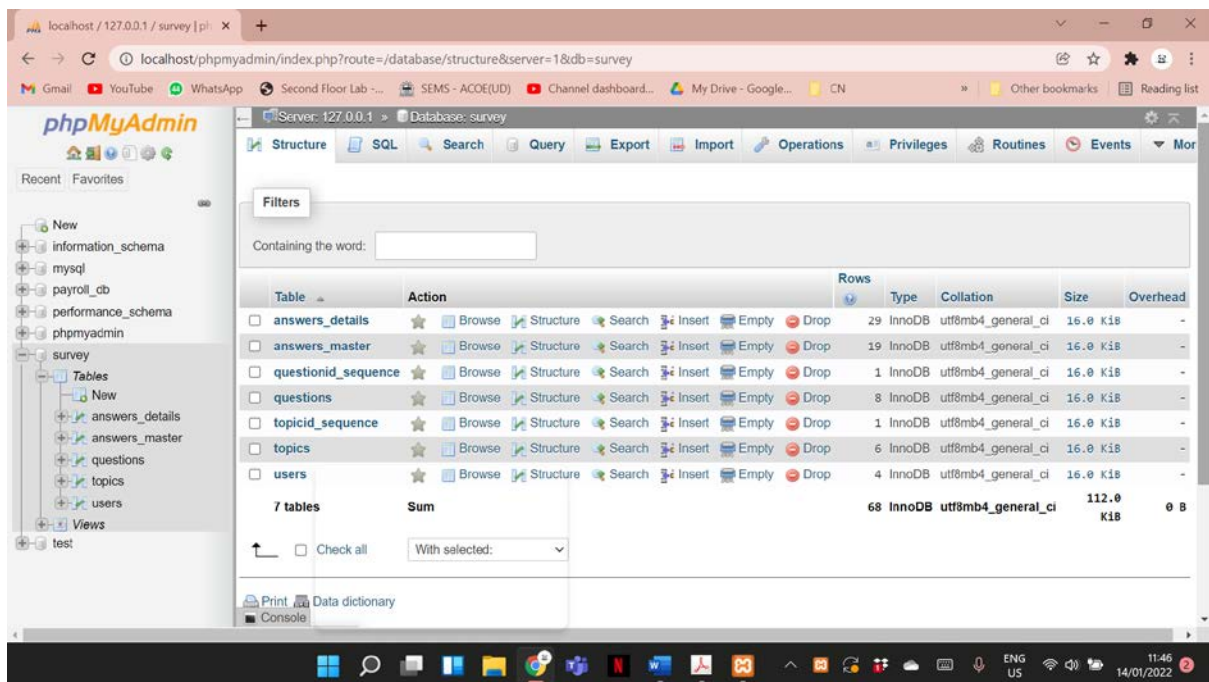
- Web Technology implemented using Java Server Pages (JSP)
- Languages used: JAVA
- Framework used: JSF (JavaServer Faces)
- Database: My SQL
- User Interface Design: XHTML, CSS, XML
- Web browser: Microsoft Edge/Google Chrome/Mozilla Firefox
- Server: XAMPP Server
- IDE: Netbeans IDE

# System Design

## Project Diagram



## Database Tables



Tables under survey database

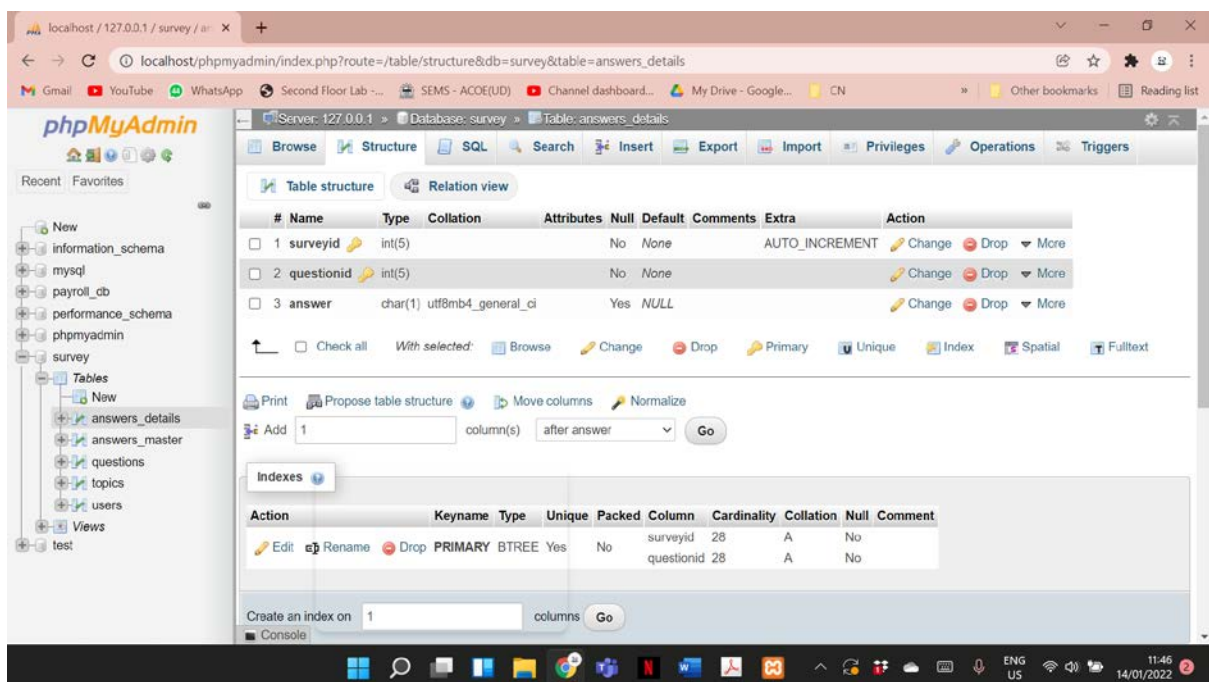


Table : answers\_details

localhost/phpmyadmin/index.php?route=/table/structure&db=survey&table=answers\_master

Server: 127.0.0.1 » Database: survey » Table: answers\_master

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	surveyid	int(5)			No	None		AUTO_INCREMENT	Change Drop More
2	topicid	int(5)			Yes	NULL			Change Drop More
3	takenon	data			Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	surveyid	18	A	No	

Create an index on 1 column(s) Go

Table : answers\_master

localhost/phpmyadmin/index.php?route=/table/structure&db=survey&table=questions

Server: 127.0.0.1 » Database: survey » Table: questions

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	questionid	int(5)			No	None		AUTO_INCREMENT	Change Drop More
2	questiontext	varchar(200)	utf8mb4_general_ci		No	None			Change Drop More
3	opt1	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
4	opt2	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
5	opt3	varchar(50)	utf8mb4_general_ci		No	None			Change Drop More
6	topicid	int(5)			Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	questionid	9	A	No	

Create an index on 1 column(s) after topicid Go

Table : questions



localhost / 127.0.0.1 / survey / u: X

localhost/phpmyadmin/index.php?route=/table/structure&db=survey&table=topics

Server: 127.0.0.1 » Database: survey » Table: topics

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	topicid	int(5)			No	None		AUTO_INCREMENT	Change Drop More
2	topicitle	varchar(50)	utf8mb4_general_ci		Yes	NULL			Change Drop More
3	addedon	datetime			Yes	NULL			Change Drop More
4	uname	varchar(10)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	topicid	6	A	No	

Table : topics

localhost / 127.0.0.1 / survey / u: X

localhost/phpmyadmin/index.php?route=/table/structure&db=survey&table=users

Server: 127.0.0.1 » Database: survey » Table: users

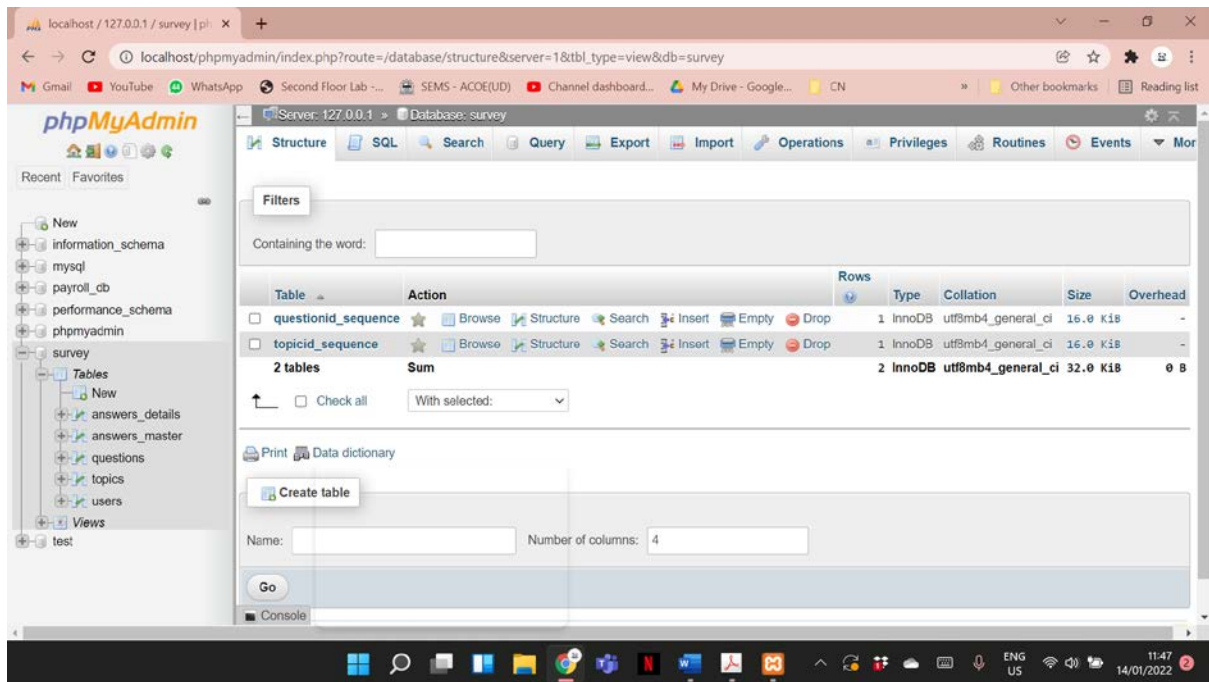
Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	uname	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
2	password	varchar(10)	utf8mb4_general_ci		Yes	NULL			Change Drop More

Indexes

Action	Keyname	Type	Unique	Packed	Column	Cardinality	Collation	Null	Comment
Edit Rename Drop	PRIMARY	BTREE	Yes	No	uname	4	A	No	

Table : users



**Views under survey database**

## System Implementation

### Flow of Website

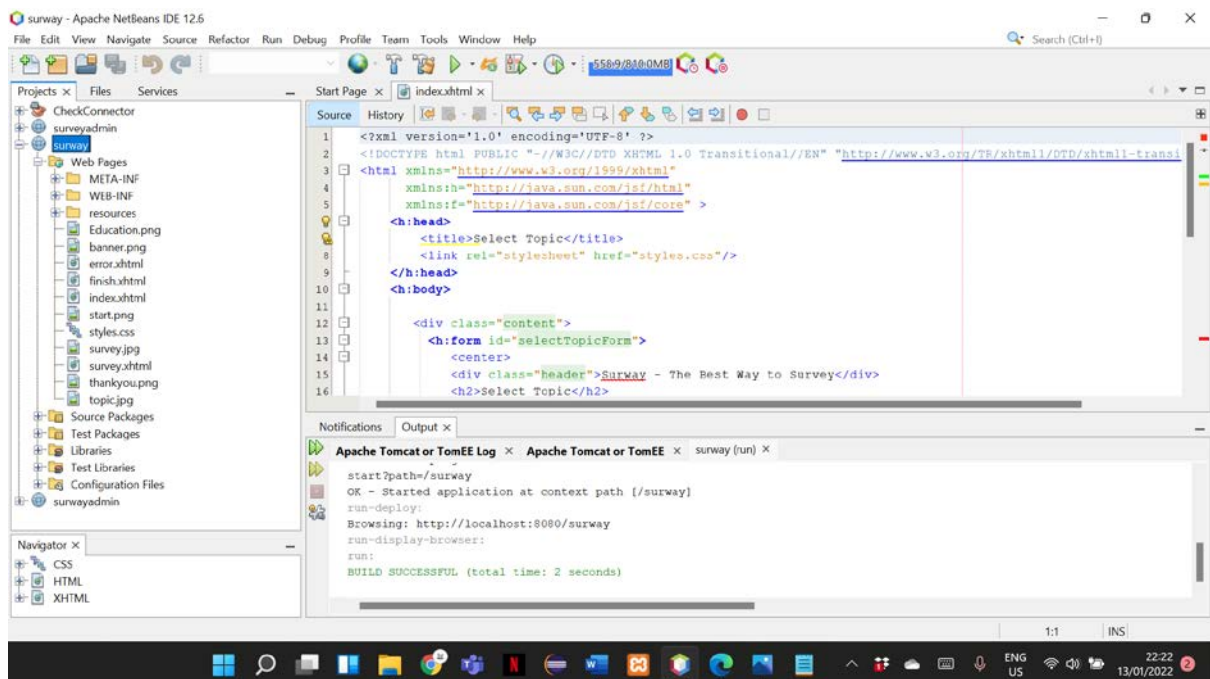
#### User side

Index page allows the user to select the topic they are willing to undertake the survey. After choosing their topic click on the survey icon to participate in the survey. Then the user will be directed into survey page and can view the questions and answer them. Click on the Next button to check the next question, Previous button to check the previous question, Finish button to complete the survey and Cancel to exit the survey. After completing the survey, the user will be directed to a thank you page and inserts the survey data into database.

#### Admin side

Login page gets the login credentials from the admin (userid & password), if valid login it takes you to then homepage. Homepage allows you to view the topics, questions in each topic, add topics, add questions, delete questions, delete topics, check the survey results and logout.

## Sample Screenshots



Clean, build and run “surway”

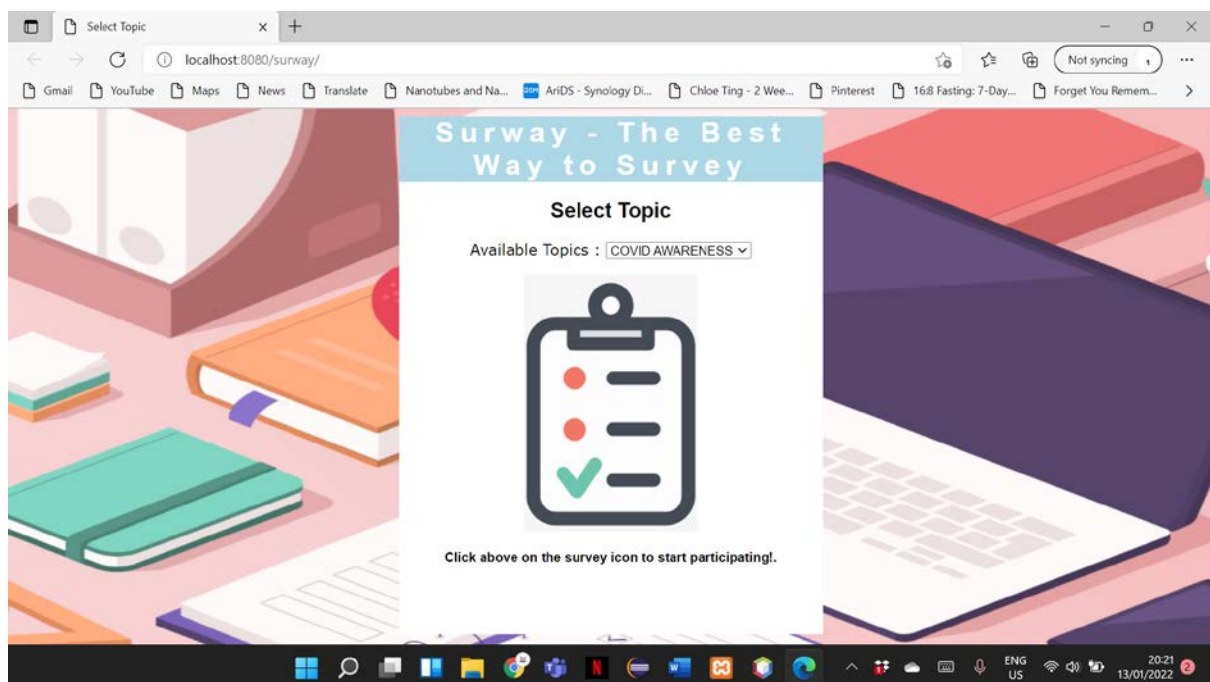
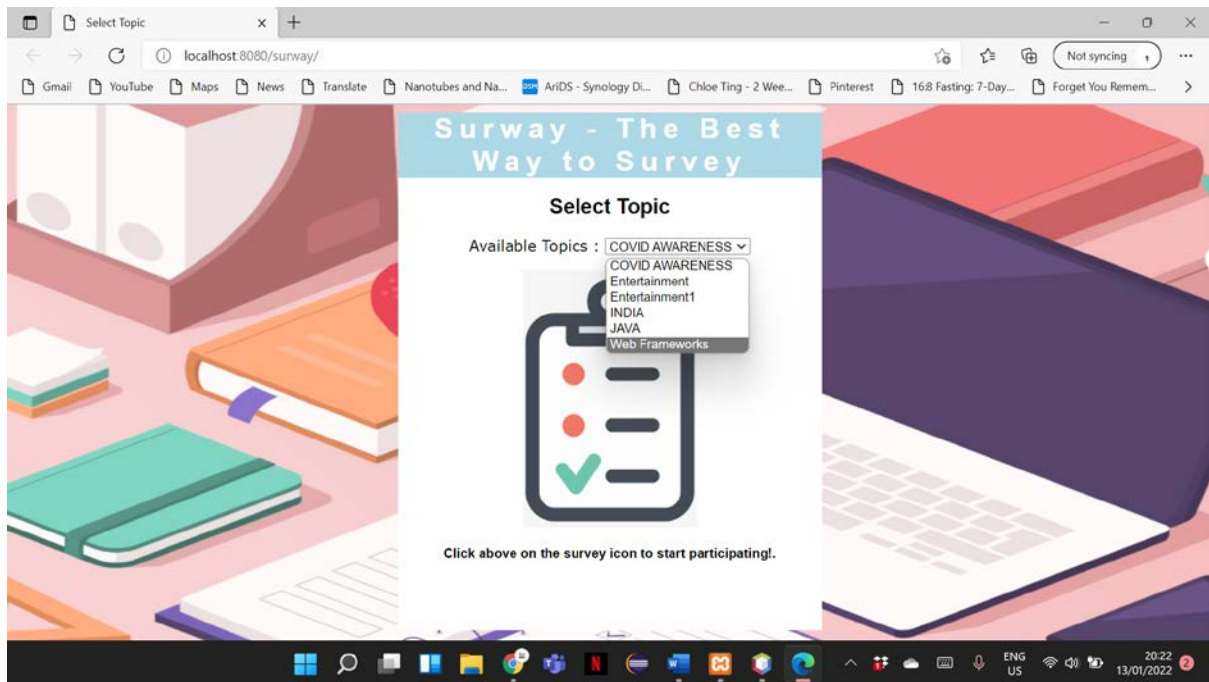
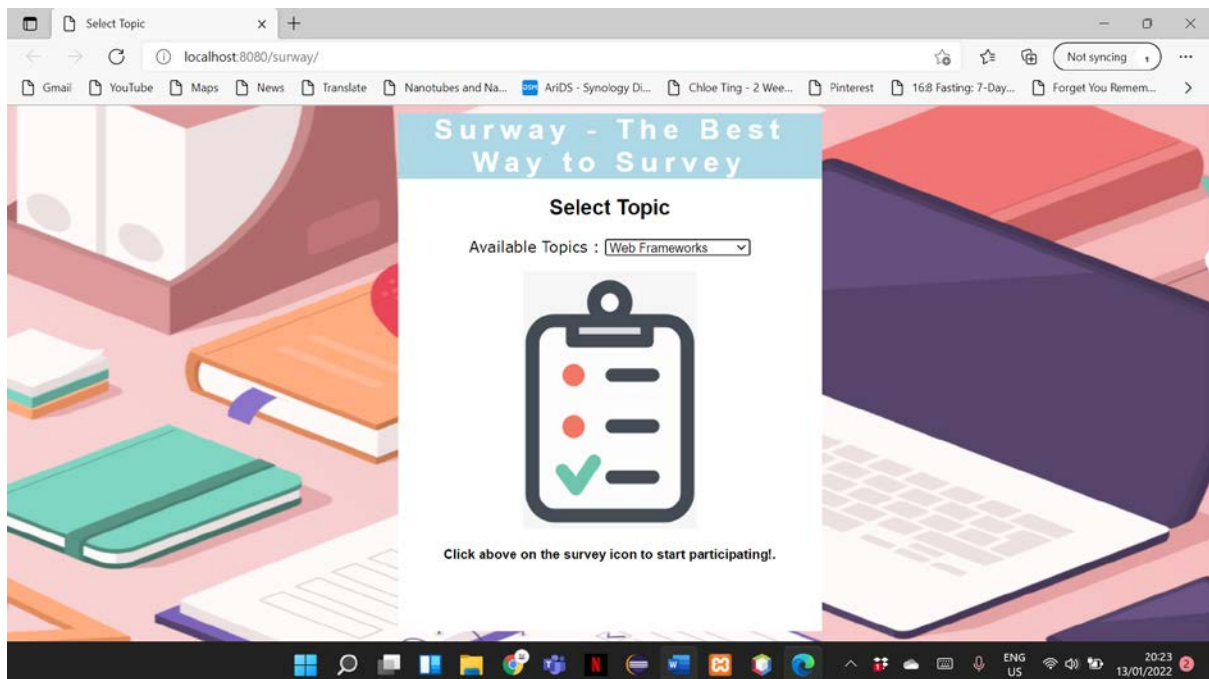


Fig 5.1.1. User side

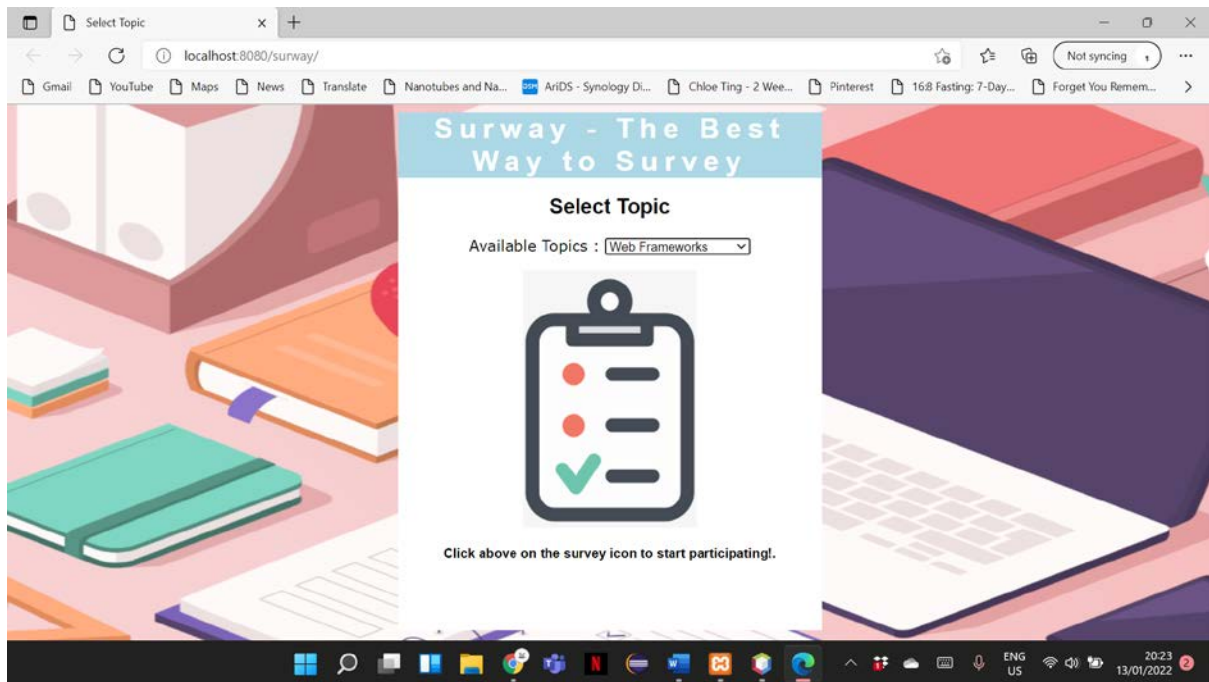


**Fig 5.1.2. User selects topics**

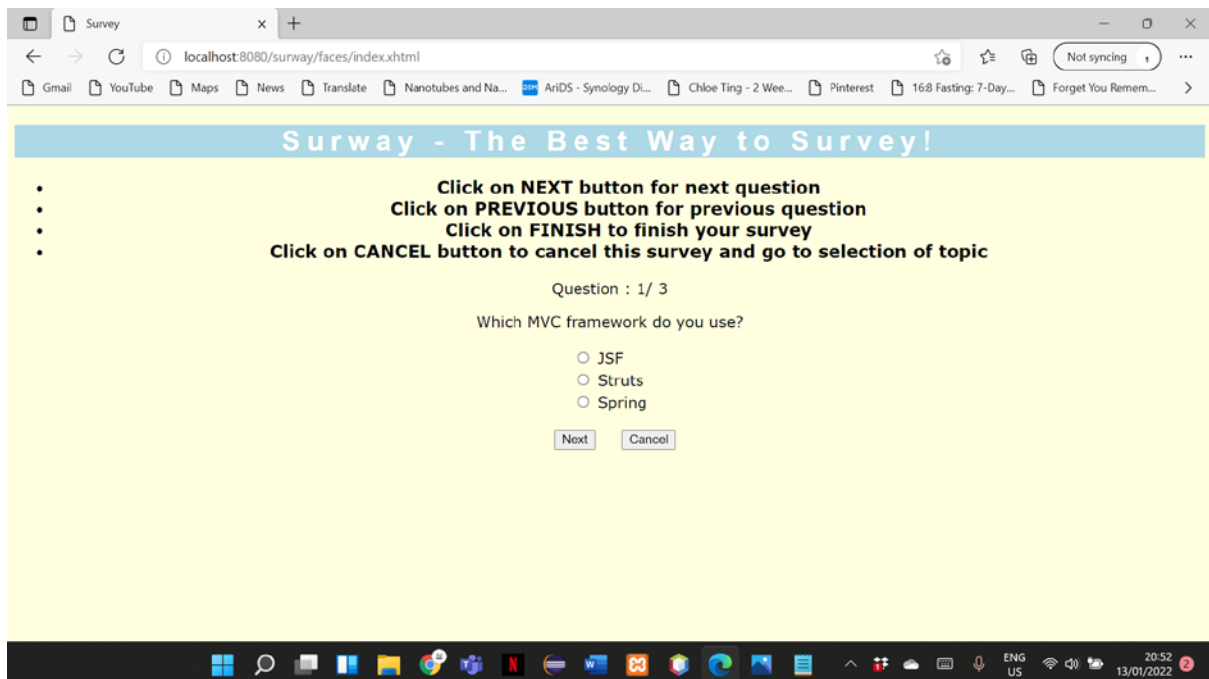


**Fig 5.1.3. Select topic**





**Fig 5.1.4. Click on the survey icon to take the survey.**



**Fig 5.1.5. User clicks next without selecting a option**

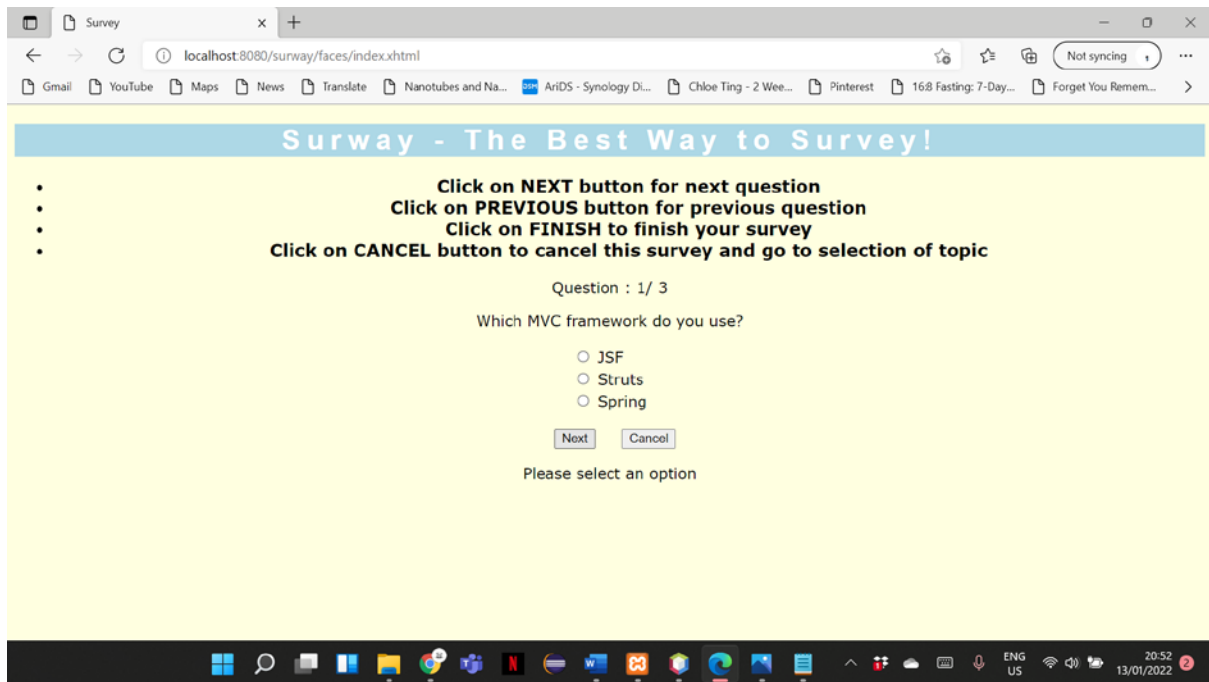


Fig 5.1.6. “Please select an option” is displayed

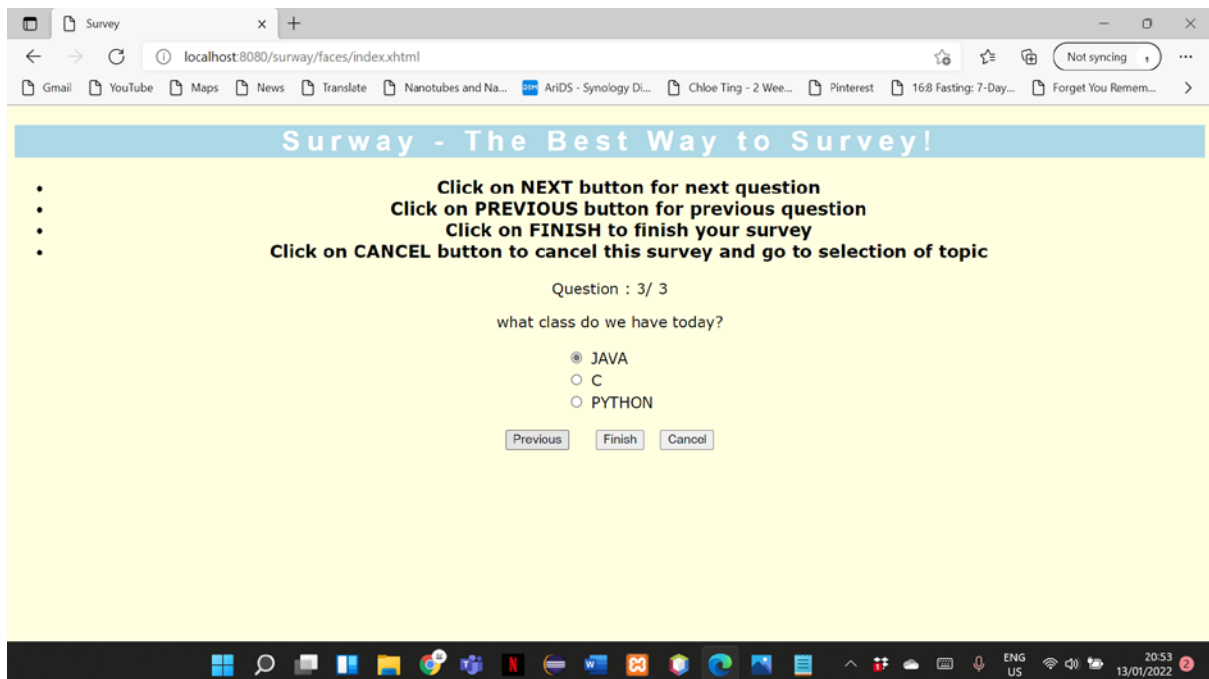
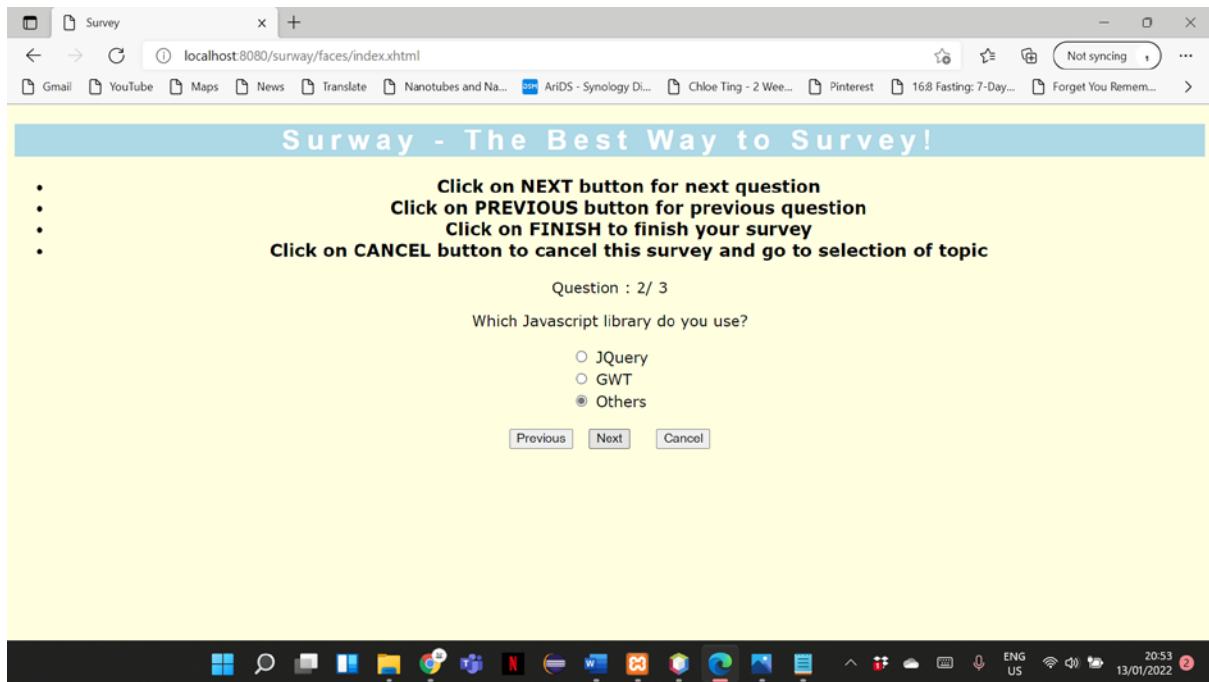
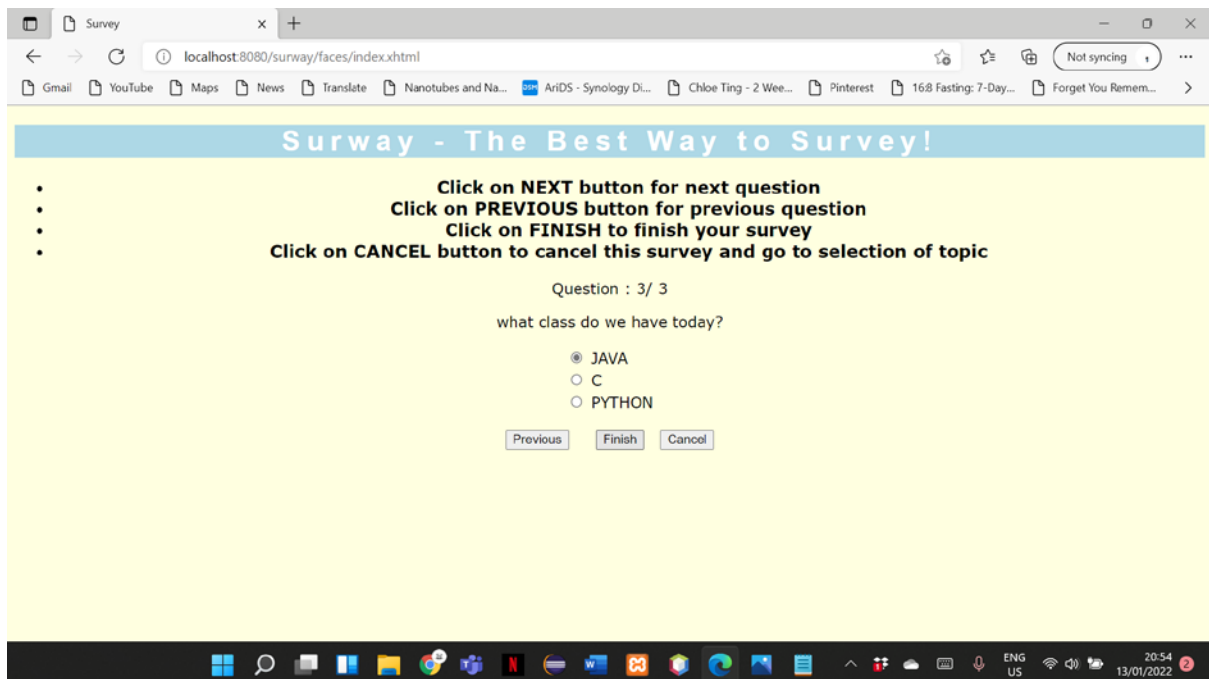


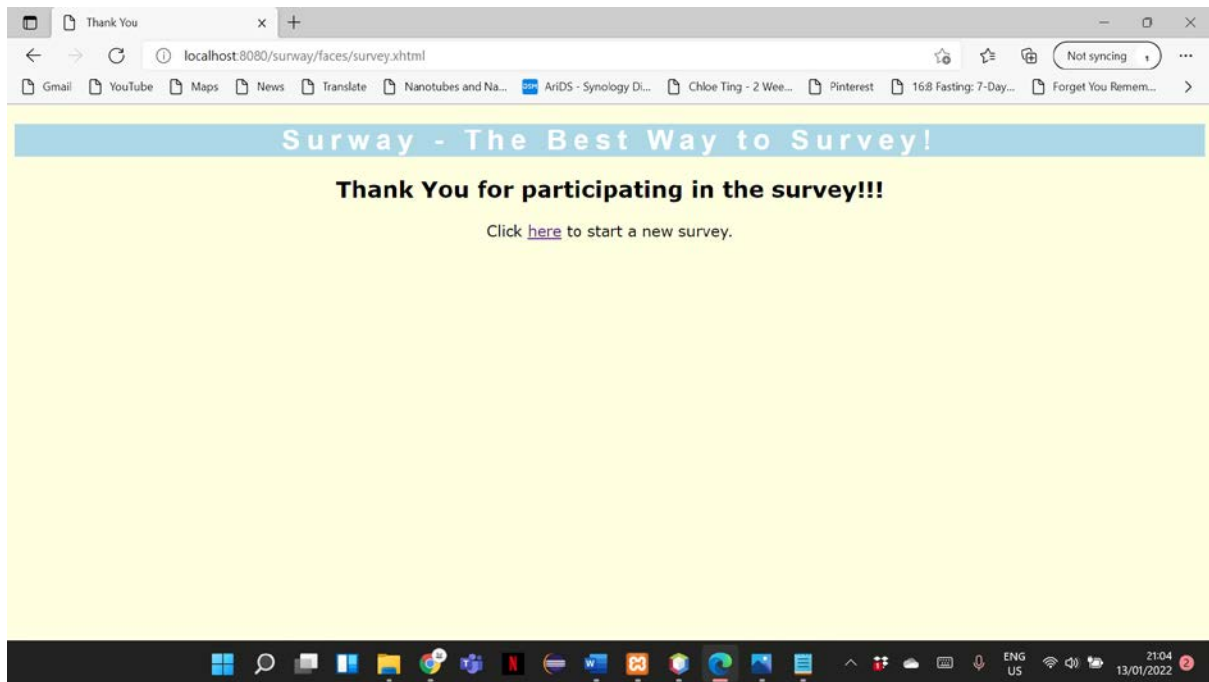
Fig 5.1.7. User clicks Previous button



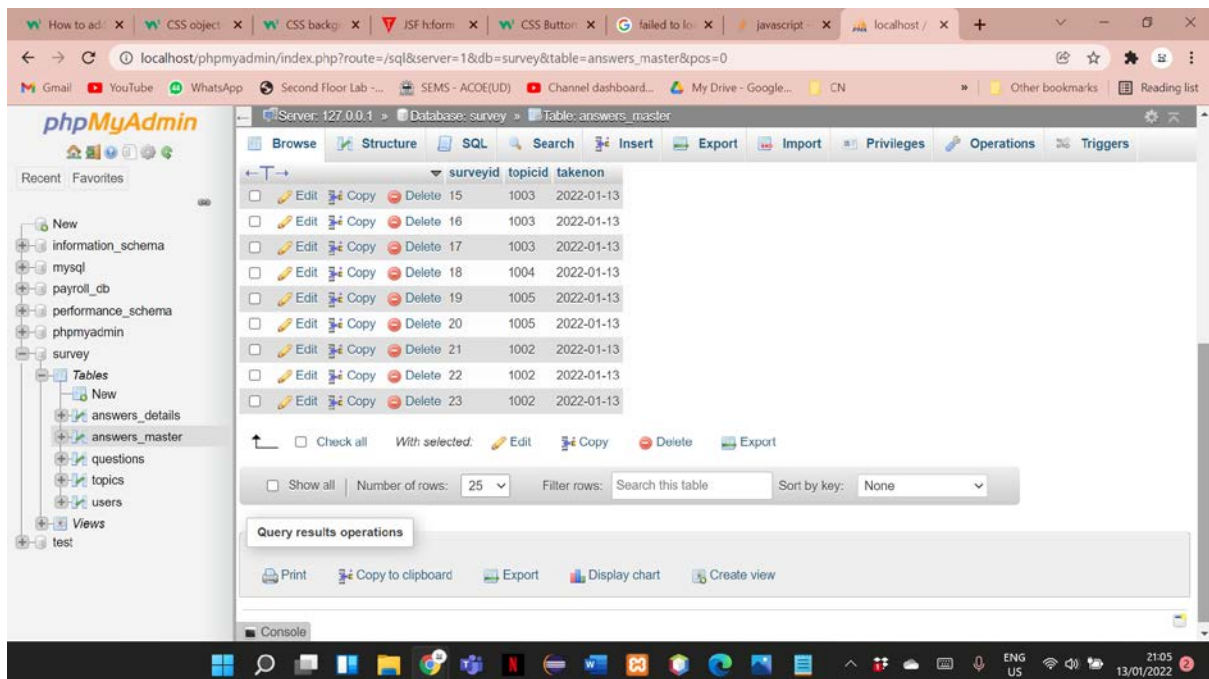
**Fig 5.1.8. User Clicks Next button**



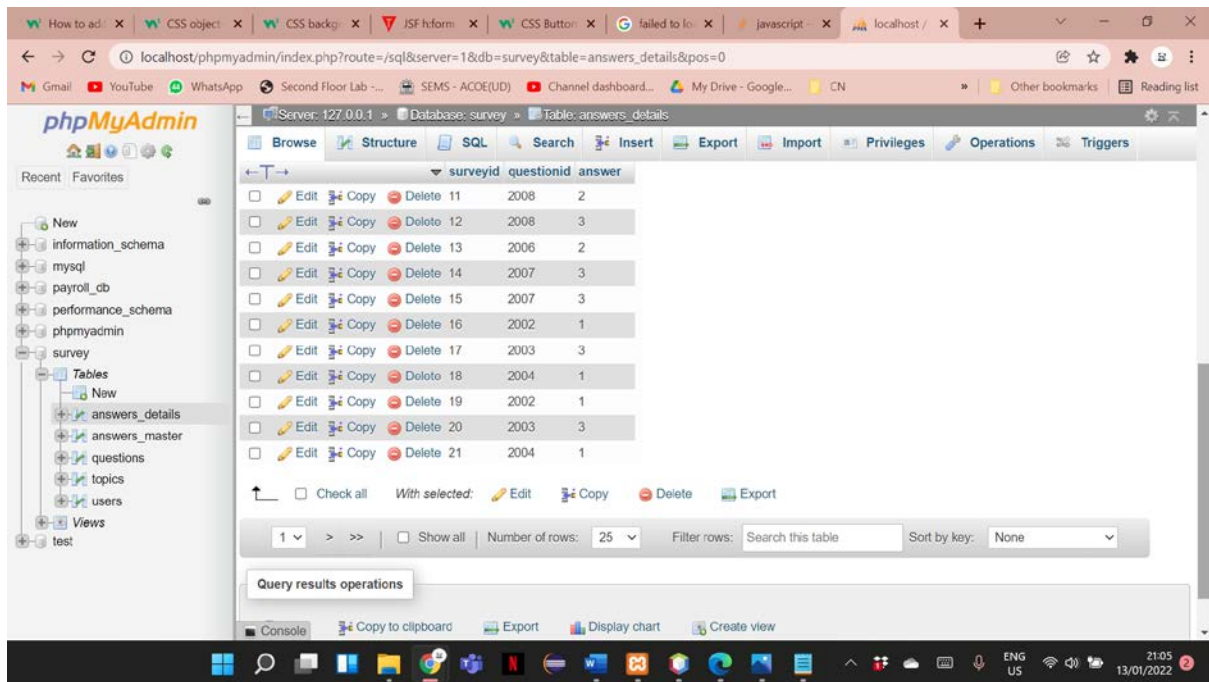
**Fig 5.1.9. User clicks Finish Button**



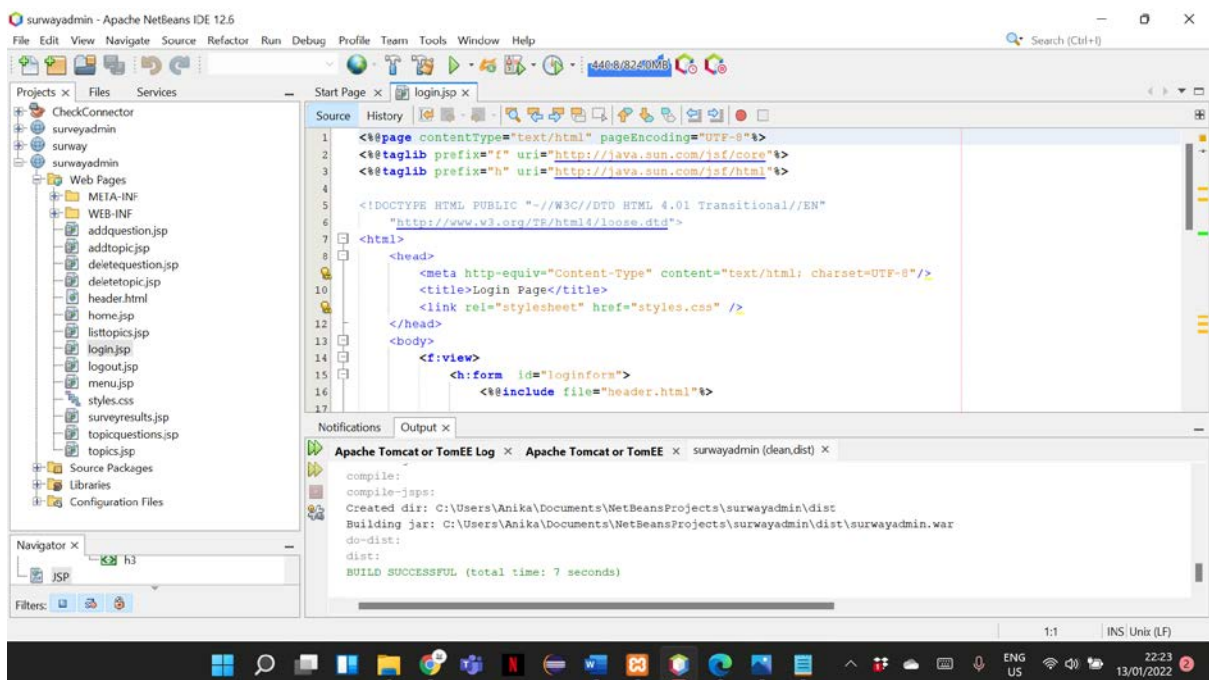
**Fig 5.1.10. User gets directed to Thank You page**



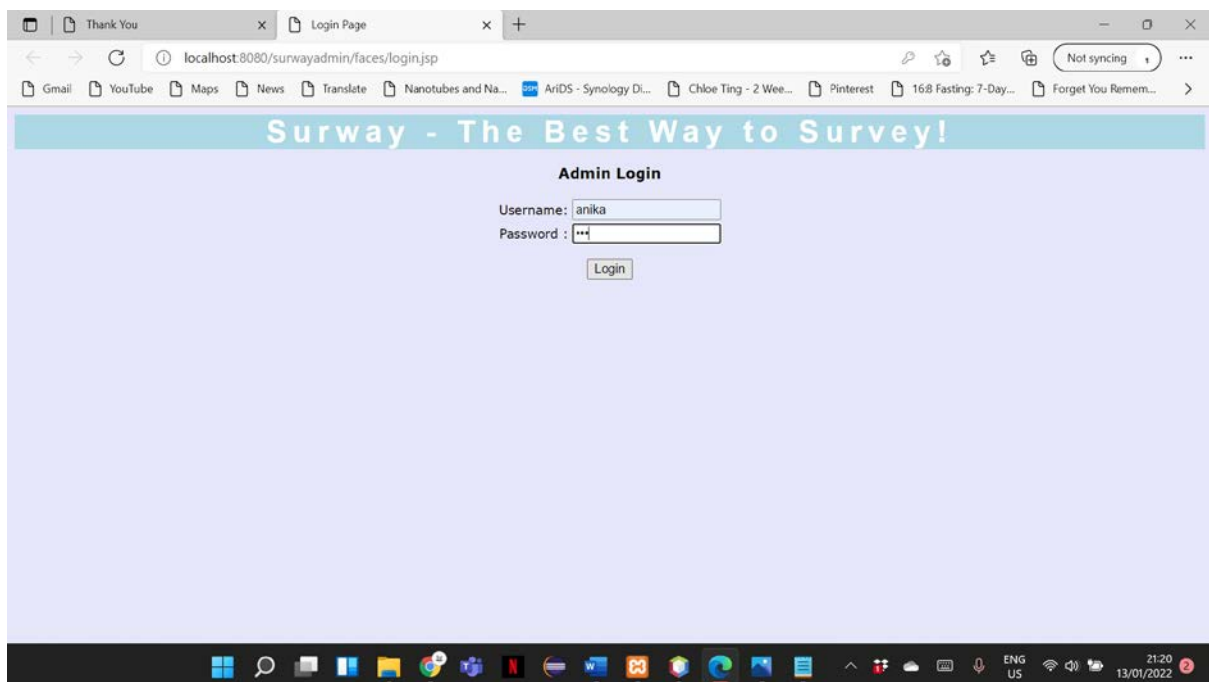
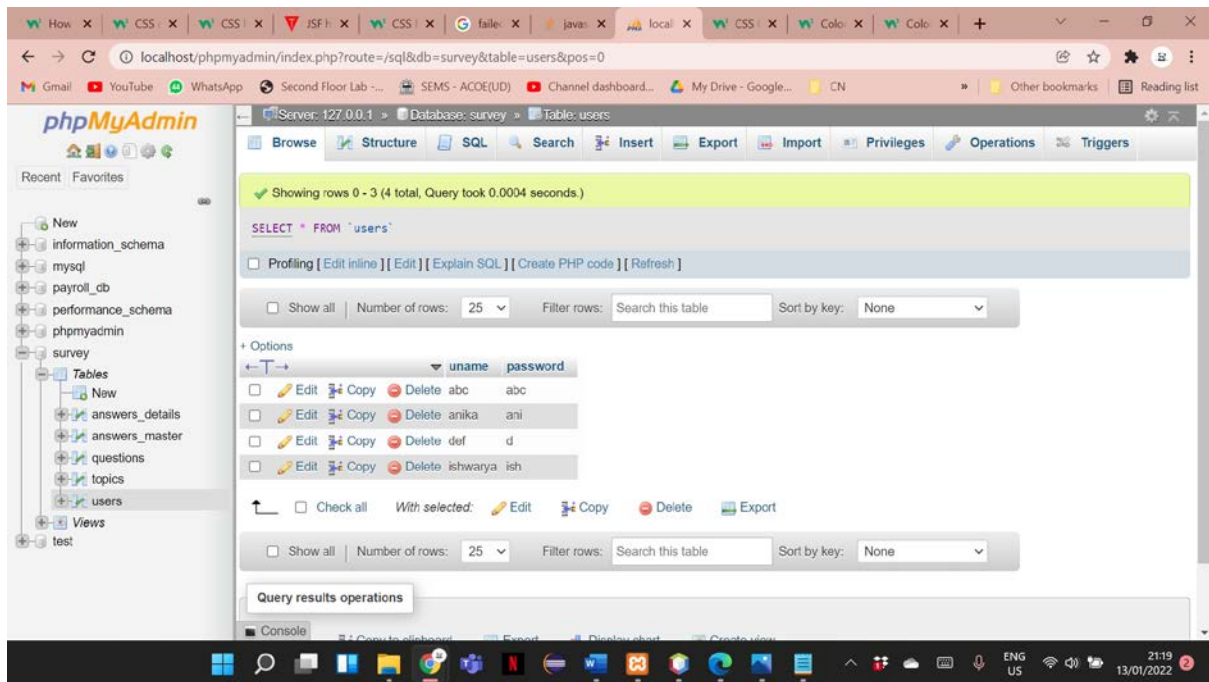




**Fig 5.1.11. Users answers have been inserted directly into the answers database tables.**



**Clean, build and run “surwayadmin”**



**Fig 5.2.1 Admin enters a valid login credentials.**

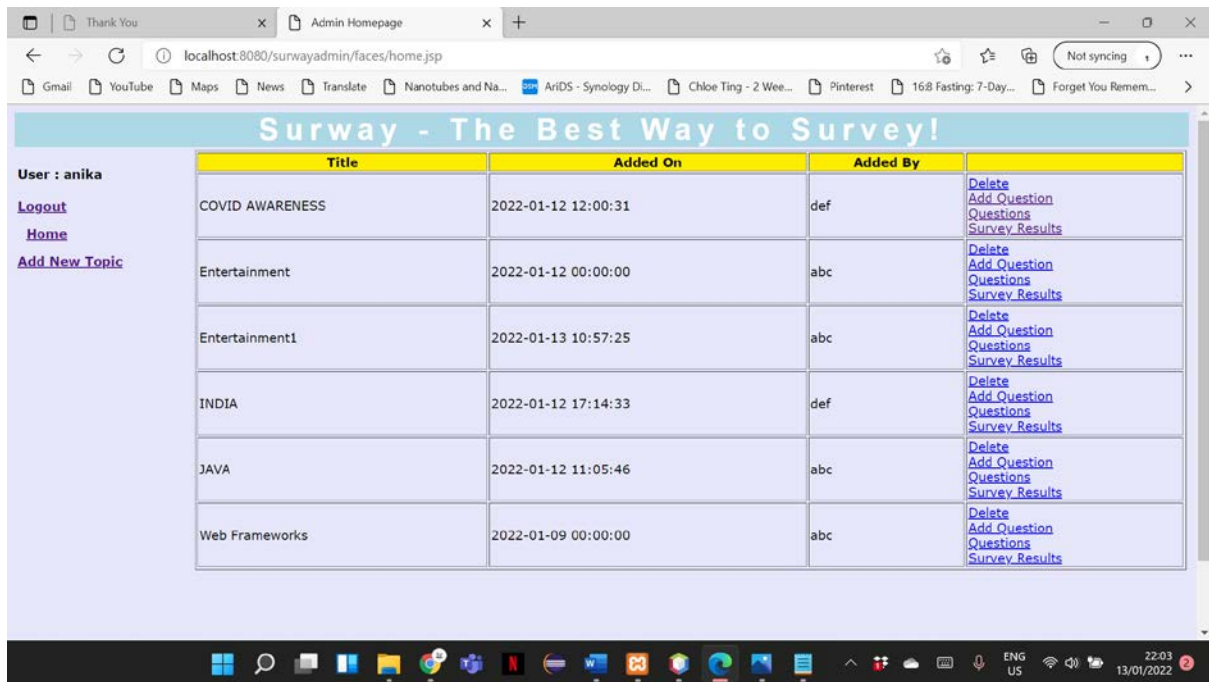


Fig 5.2.2. Admin Homepage

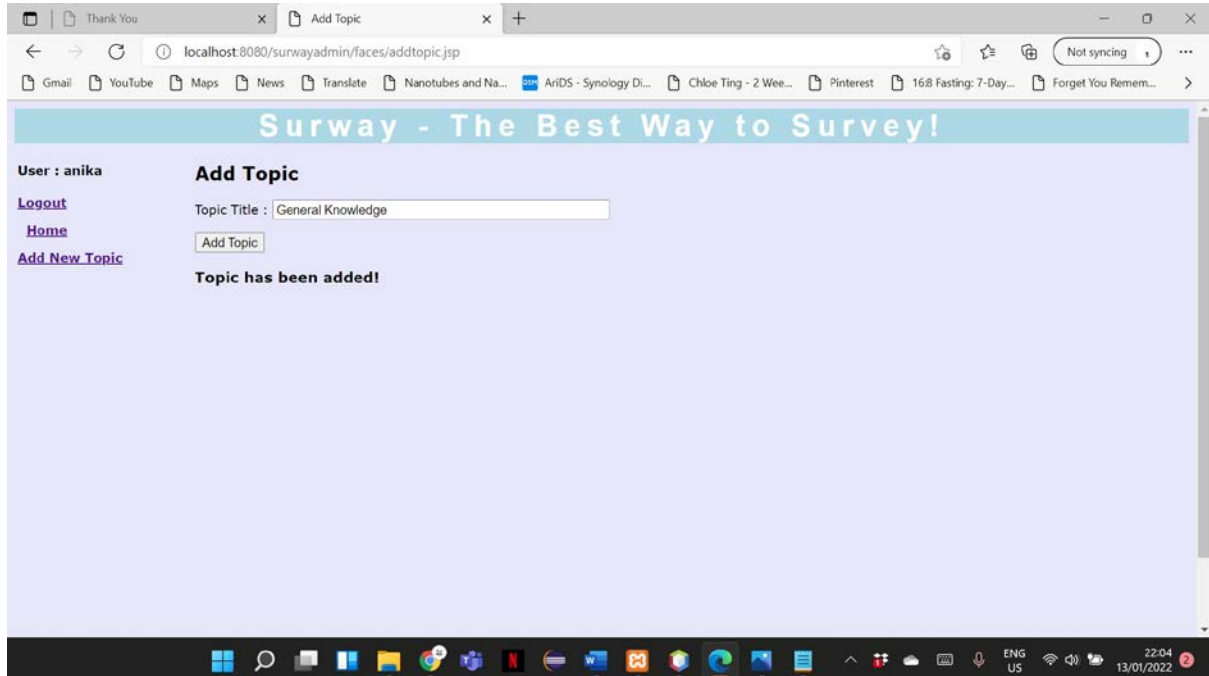
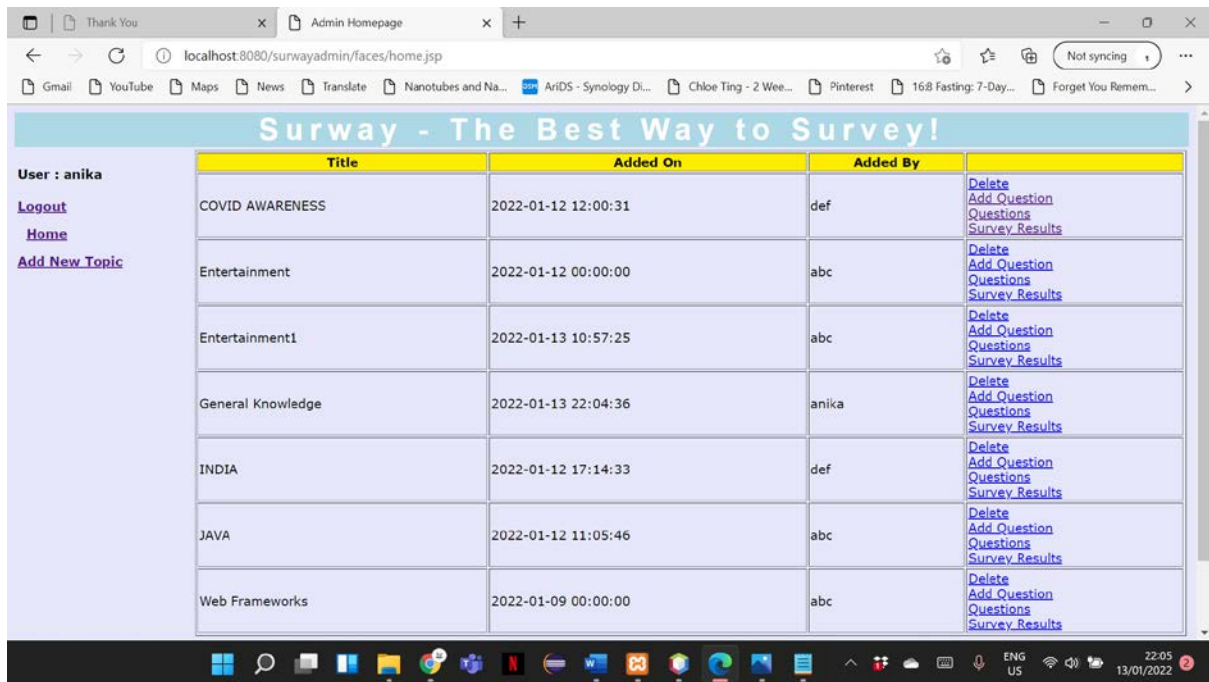


Fig 5.2.3. Admin adds a new topic.

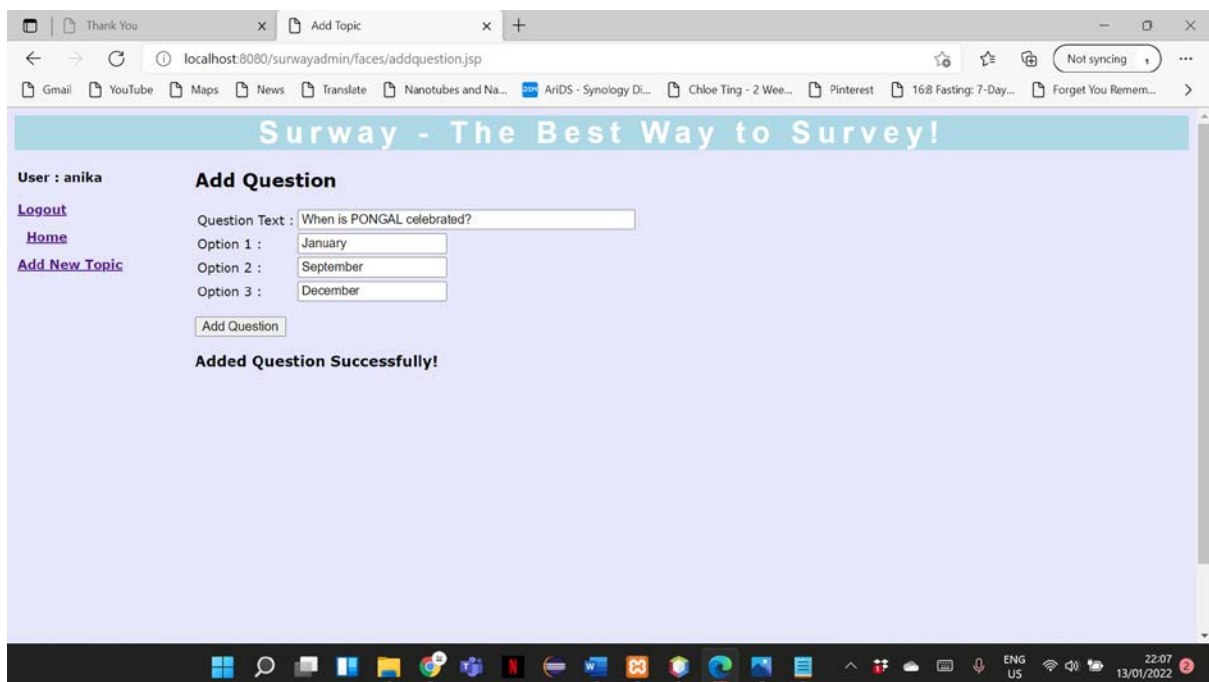


**Surway - The Best Way to Survey!**

User : anika  
[Logout](#)  
[Home](#)  
[Add New Topic](#)

Title	Added On	Added By	
COVID AWARENESS	2022-01-12 12:00:31	def	<a href="#">Delete</a> <a href="#">Add Question</a> <a href="#">Questions</a> <a href="#">Survey Results</a>
Entertainment	2022-01-12 00:00:00	abc	<a href="#">Delete</a> <a href="#">Add Question</a> <a href="#">Questions</a> <a href="#">Survey Results</a>
Entertainment1	2022-01-13 10:57:25	abc	<a href="#">Delete</a> <a href="#">Add Question</a> <a href="#">Questions</a> <a href="#">Survey Results</a>
General Knowledge	2022-01-13 22:04:36	anika	<a href="#">Delete</a> <a href="#">Add Question</a> <a href="#">Questions</a> <a href="#">Survey Results</a>
INDIA	2022-01-12 17:14:33	def	<a href="#">Delete</a> <a href="#">Add Question</a> <a href="#">Questions</a> <a href="#">Survey Results</a>
JAVA	2022-01-12 11:05:46	abc	<a href="#">Delete</a> <a href="#">Add Question</a> <a href="#">Questions</a> <a href="#">Survey Results</a>
Web Frameworks	2022-01-09 00:00:00	abc	<a href="#">Delete</a> <a href="#">Add Question</a> <a href="#">Questions</a> <a href="#">Survey Results</a>

Fig 5.2.4. Topic “General Knowledge” gets added in the homepage



**Surway - The Best Way to Survey!**

User : anika  
[Logout](#)  
[Home](#)  
[Add New Topic](#)

**Add Question**

Question Text :

Option 1 :

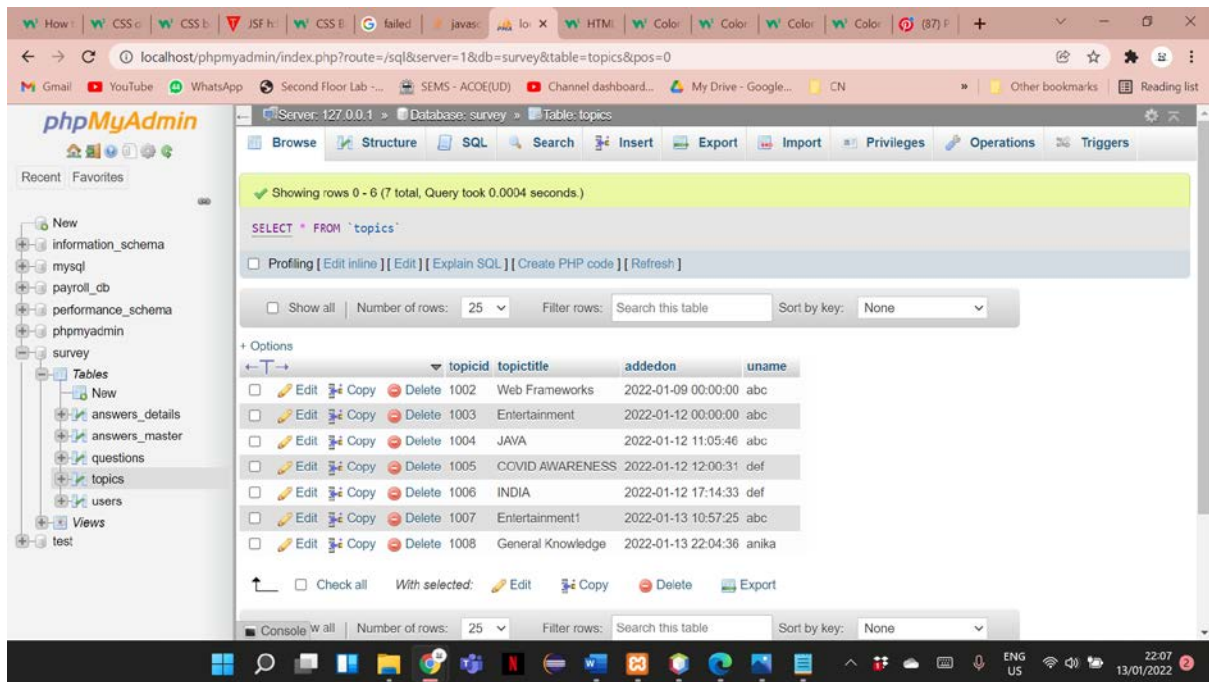
Option 2 :

Option 3 :

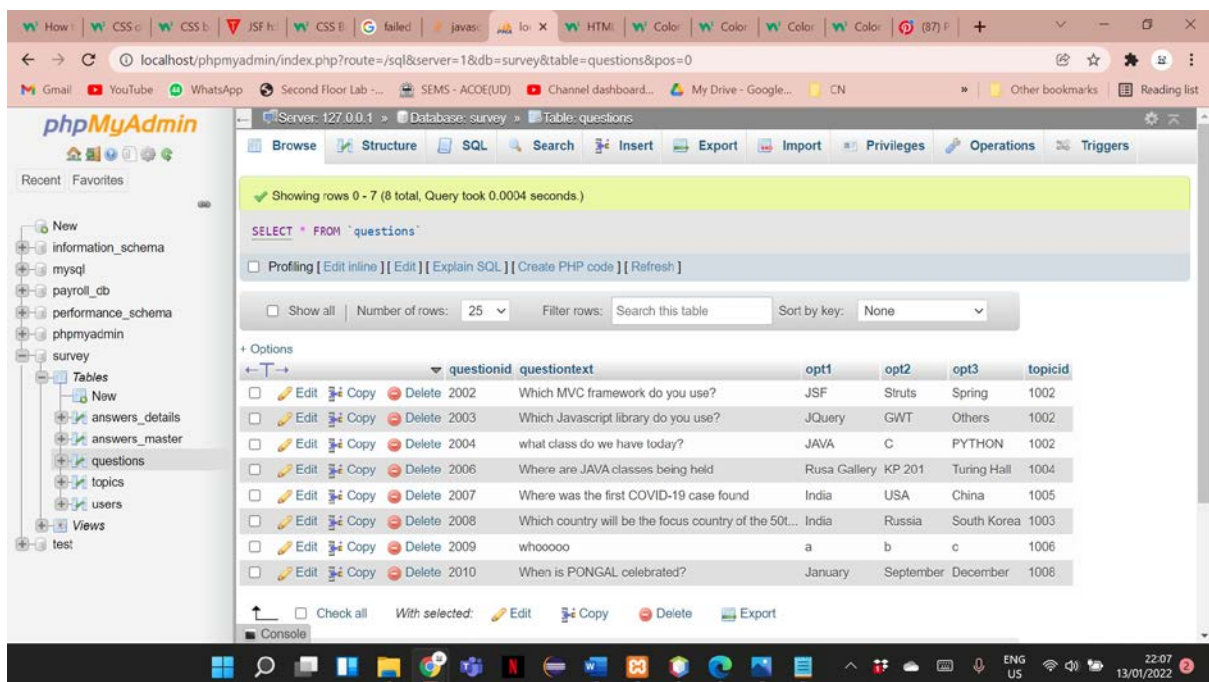
**Added Question Successfully!**

Fig 5.2.5. Adding a question under General Knowledge.





**Fig 5.2.6. Added topic General Knowledge is found in database “topics”**



**Fig 5.2.7. Added question under topic “General Knowledge” i.e topicid = 1008 is found in database “questions”**

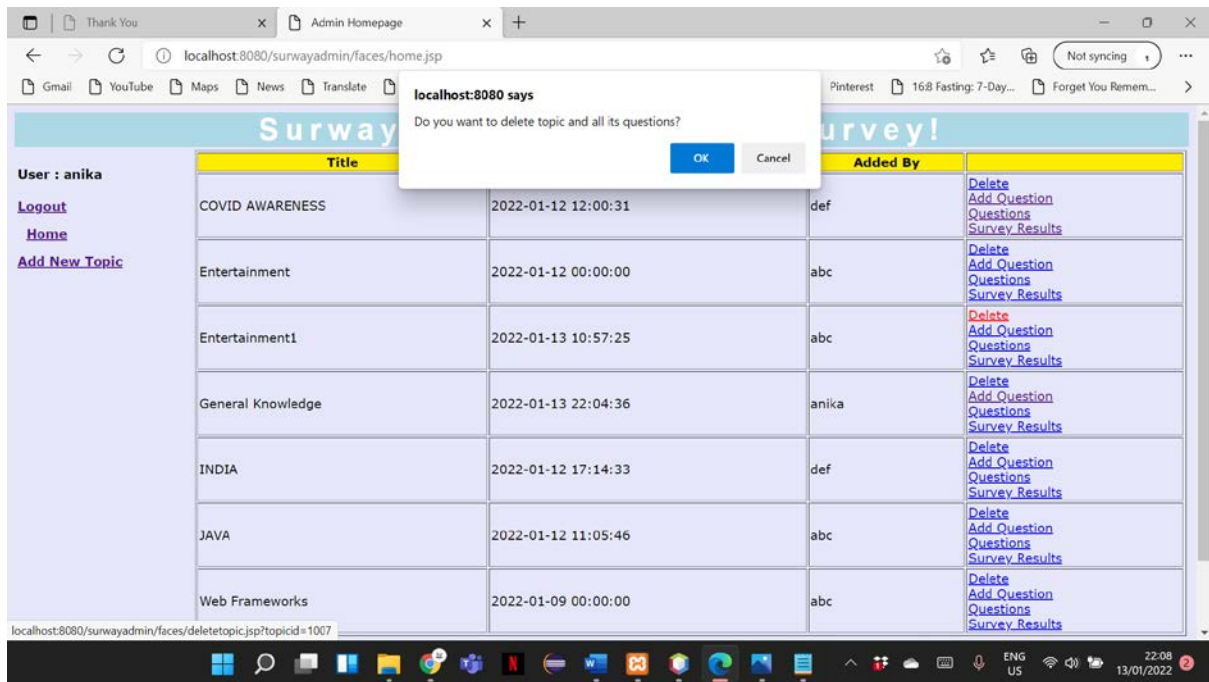


Fig 5.2.8. Admin tries to delete topic “Entertainment1” and questions under it.

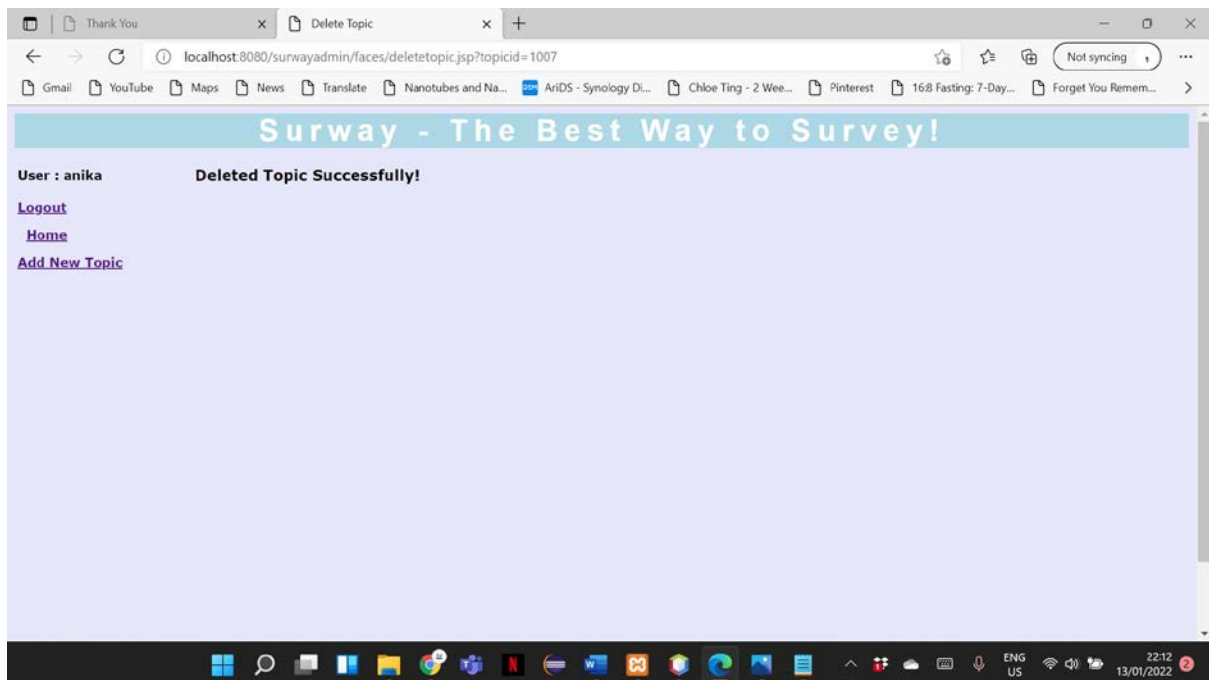


Fig 5.2.9. Topic deleted successfully

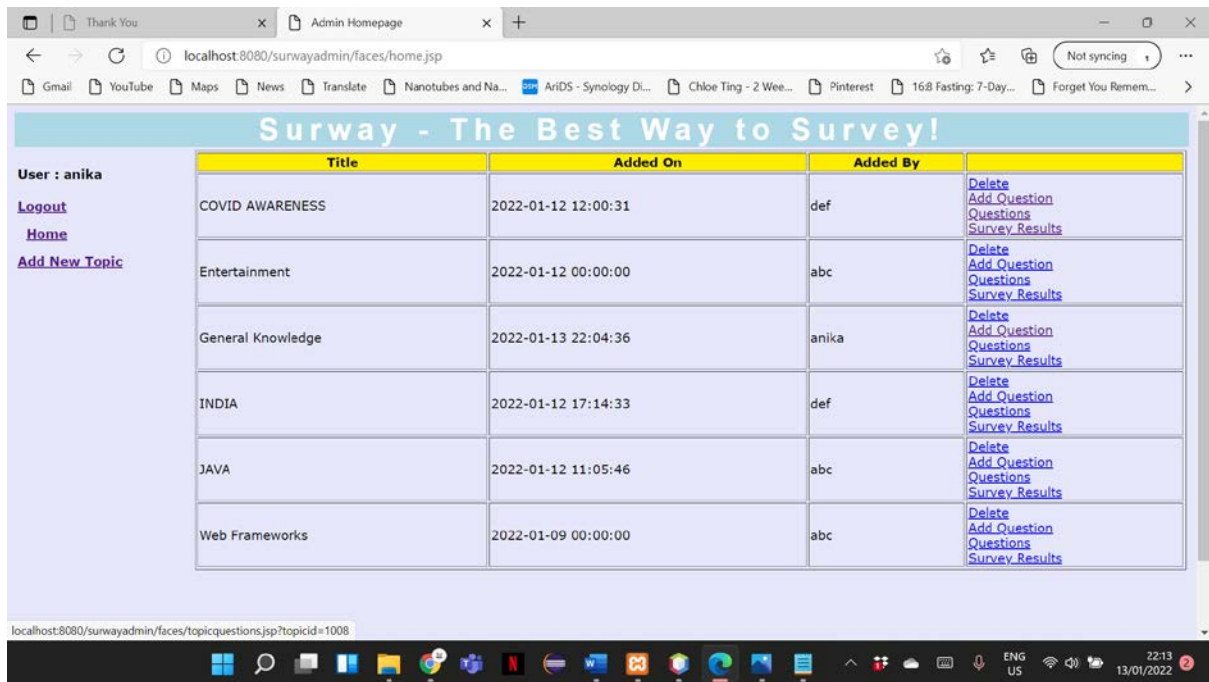


Fig 5.2.10. Admin clicks questions to view the added questions

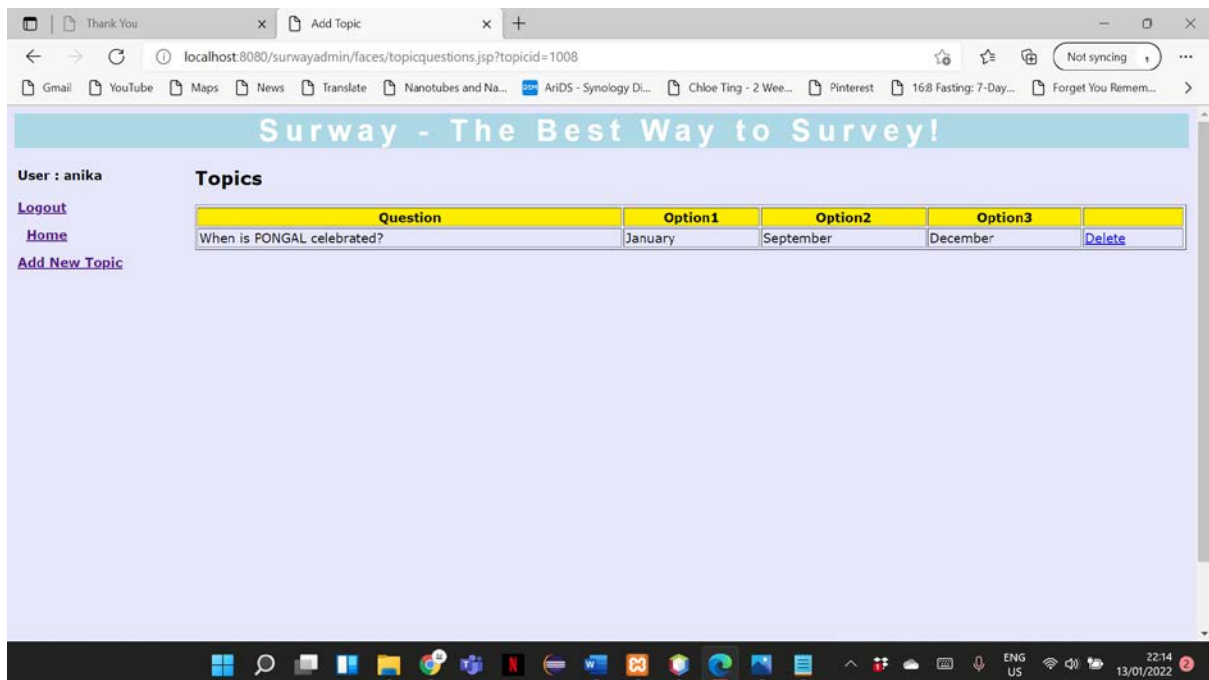


Fig 5.2.11. Added question under topic “General Knowledge” is found

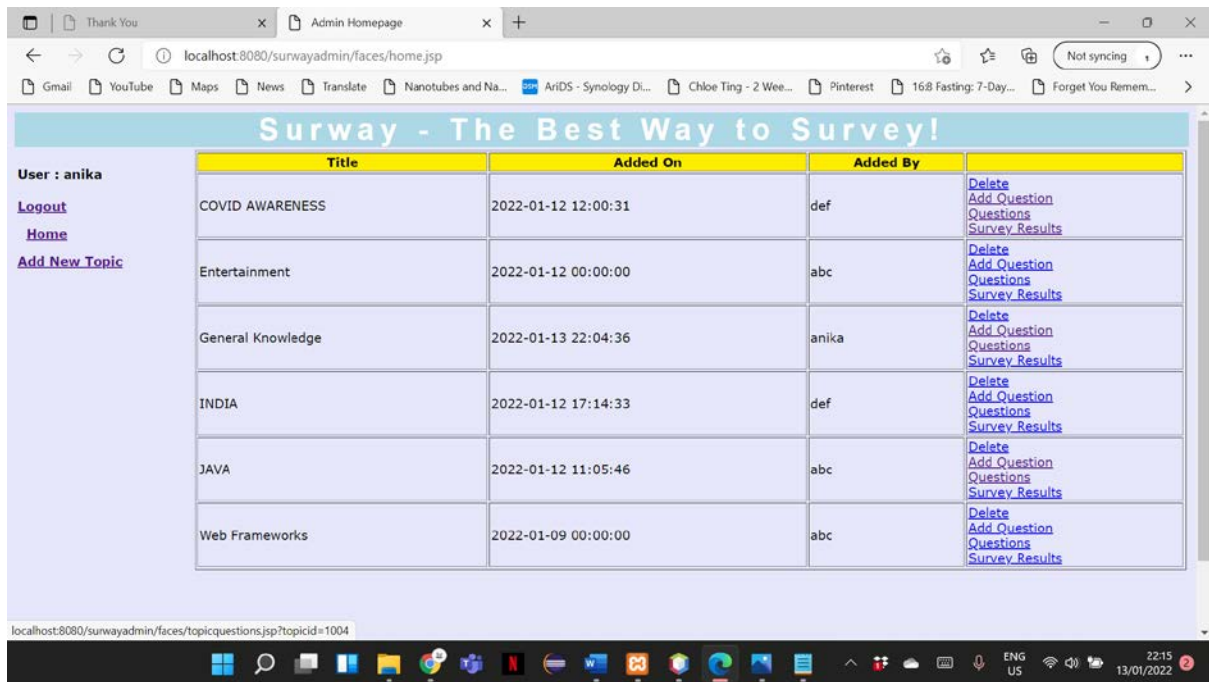


Fig 5.2.12. Admin clicks home and gets directed to homepage

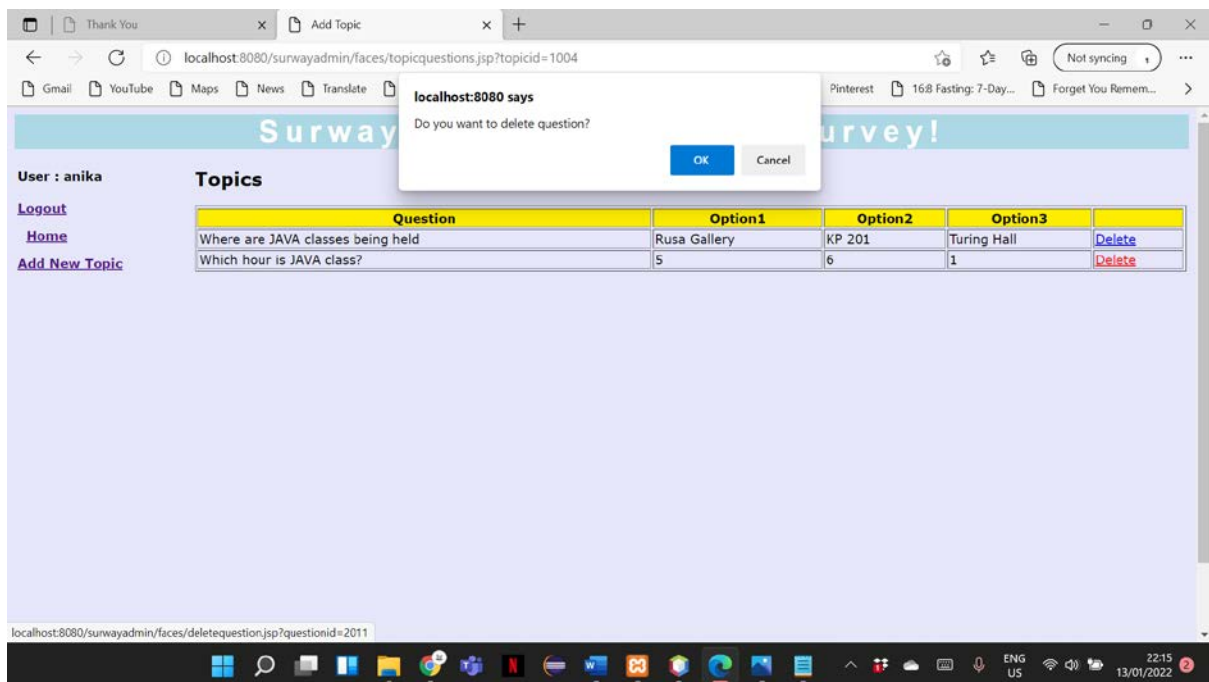


Fig 5.2.13. Admin tries to delete a question from topic “JAVA”



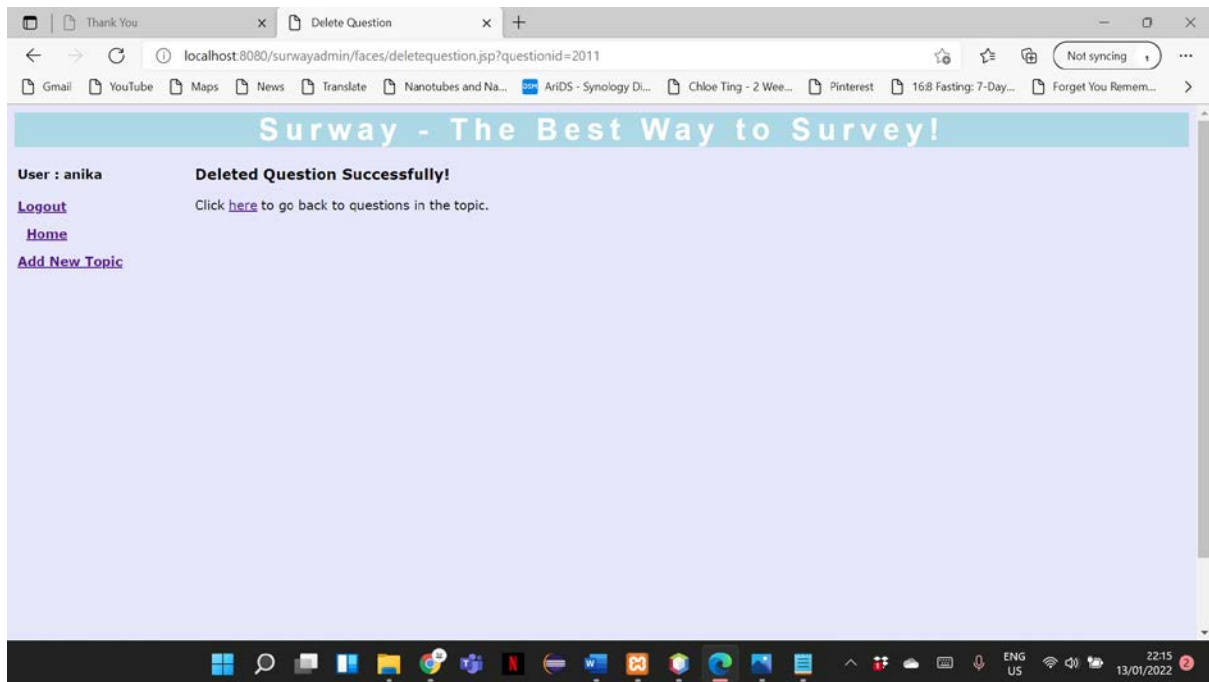


Fig 5.2.14. Question deleted successfully.

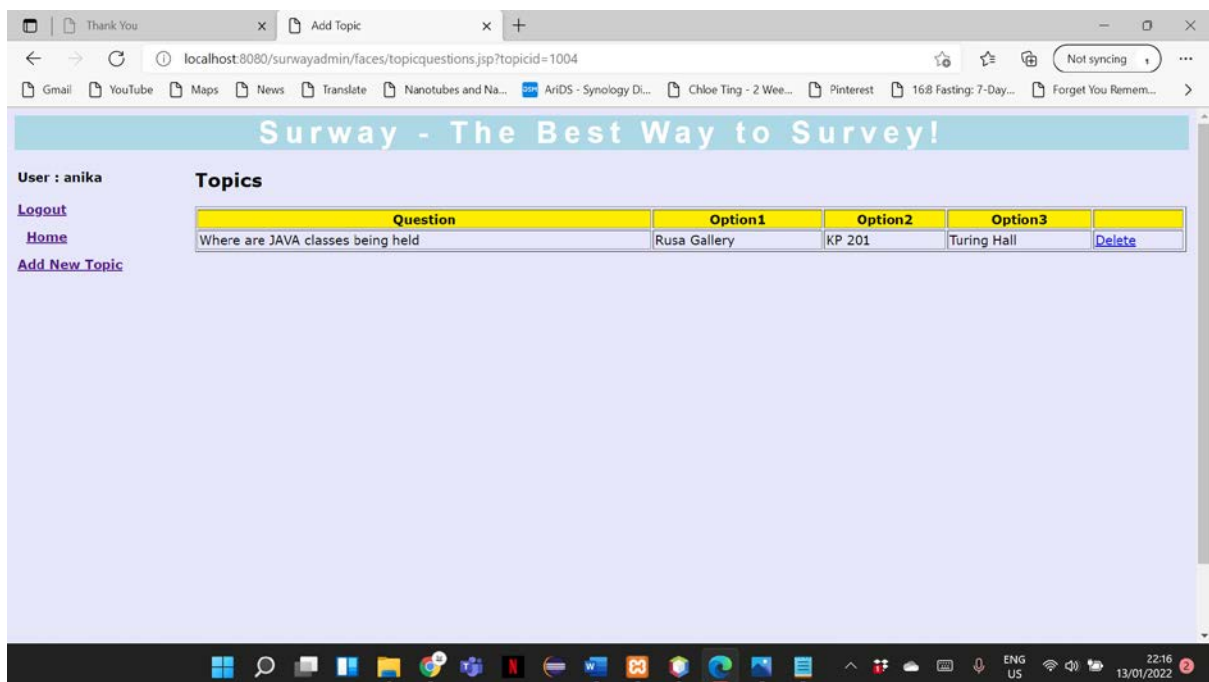
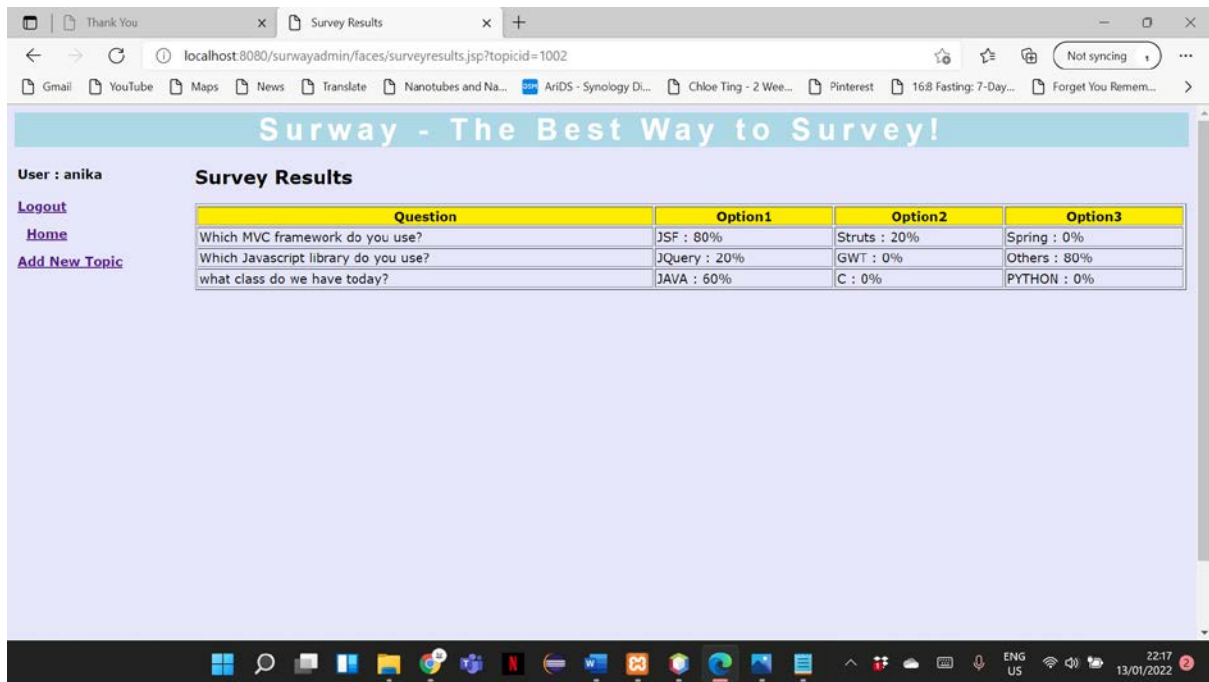
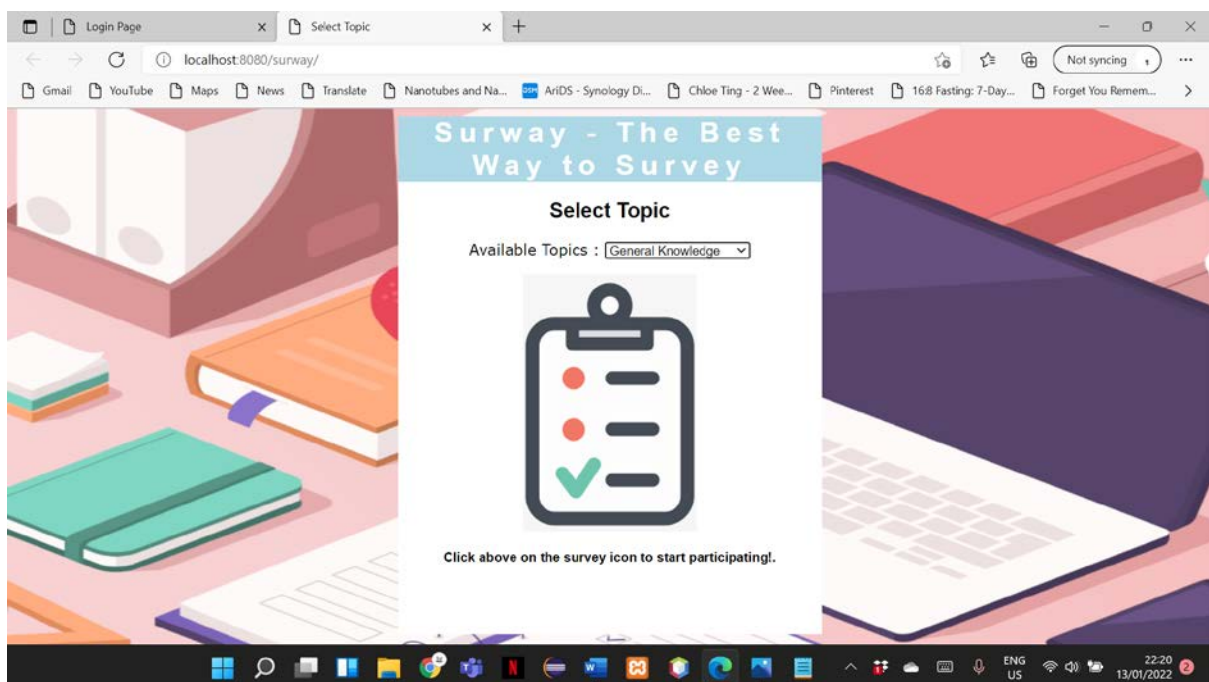


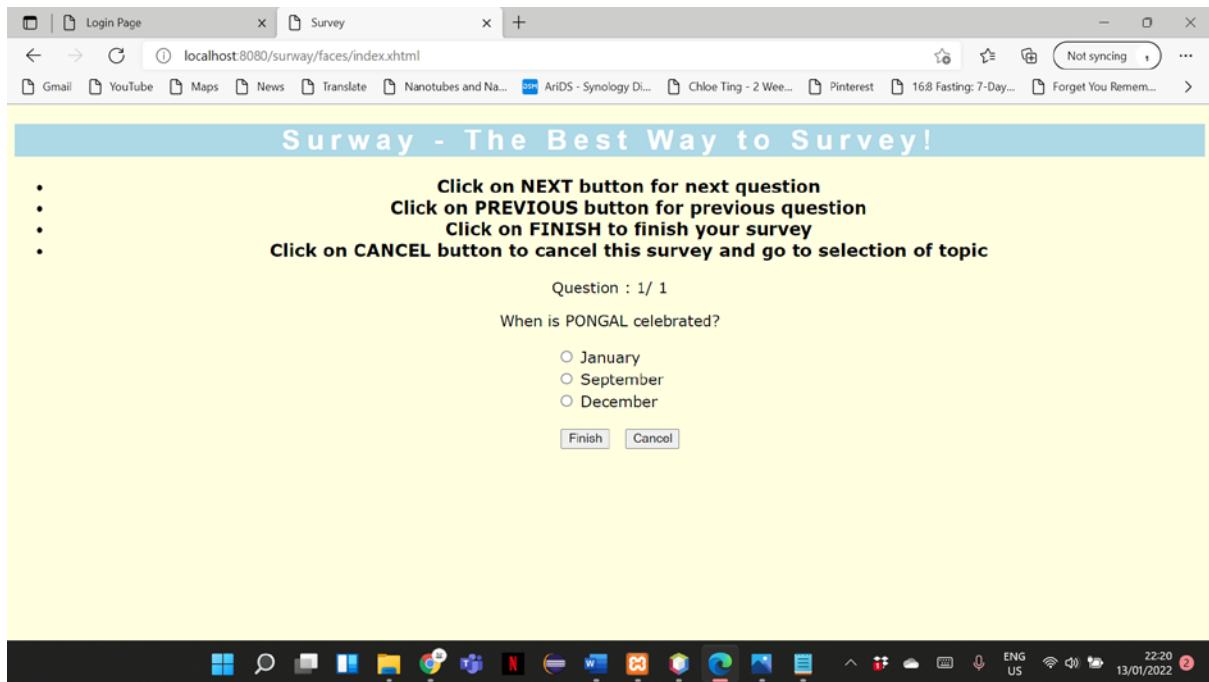
Fig 5.2.15. Admin clicks “here” to view the questions after deletion



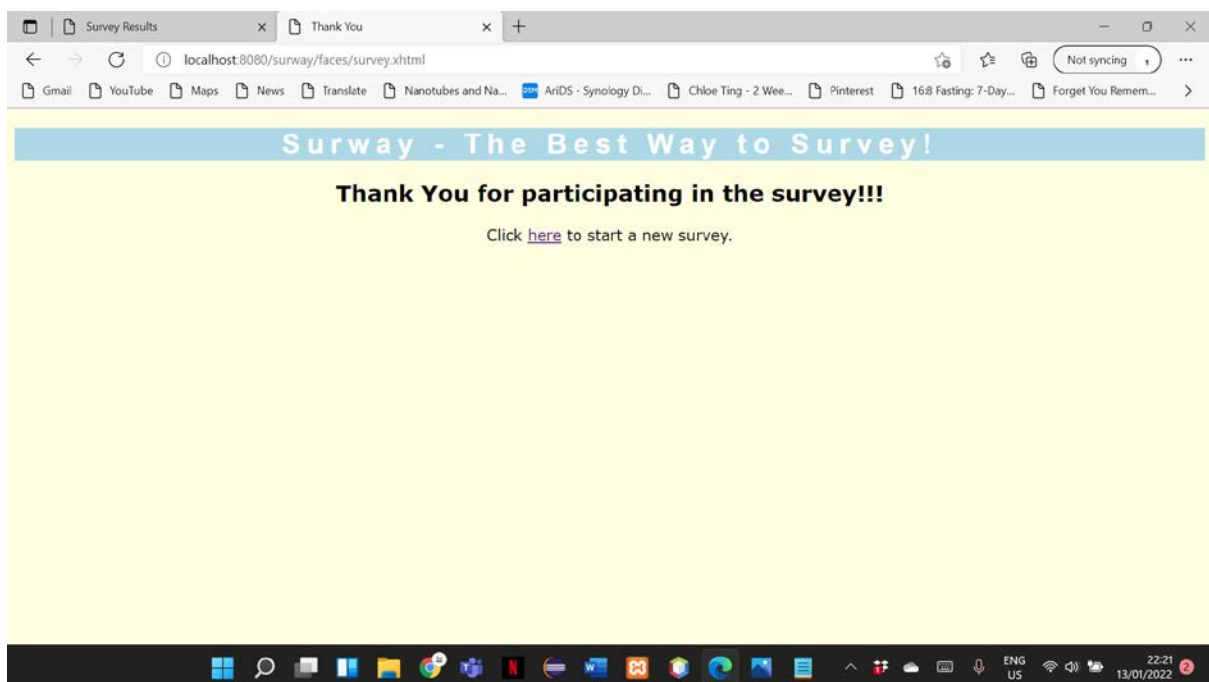
**Fig 5.2.16. Admin checks out the survey results of topic “Web Frameworks”**

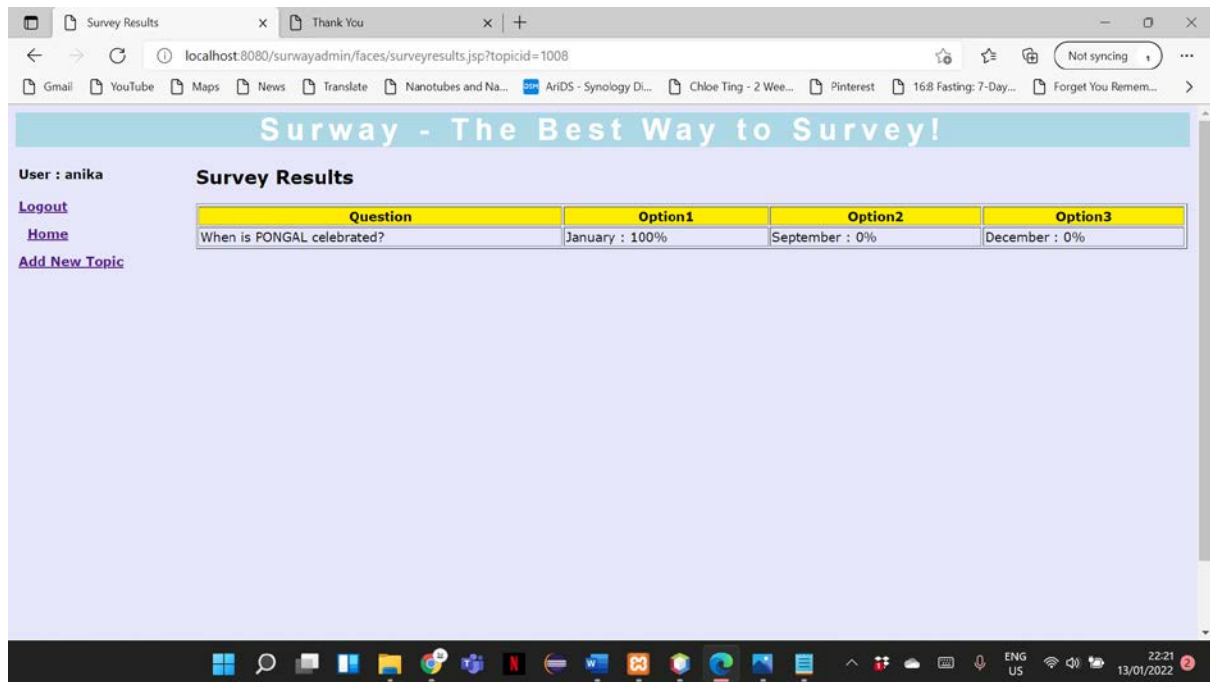


**Fig 5.2.17. Topic “General Knowledge” and questions added by the admin can now be found in the user side**



**Fig 5.2.17 & Fig 5.2.18. Topic “General Knowledge” and questions added by the admin can now be found in the user side**





**Fig 5.2.19 & Fig 5.2.20. Users survey results can now be found on the admin side.**

### How to run the project

Surway folder consists the files for user side and surwayadmin consists the files for admin side. Open the folders separately and add JSF, Servlet libraries and mysql-connector jar. Clean, build and run the project in Netbeans IDE on Tomcat Server.

## Conclusion

The convenience and reach of online surveys, coupled with their accessibility, make them particularly suited to produce quick results. There is no wait time for surveys to be mailed back or for responses to be manually entered into a data system and then analysed. Because answers are typed directly into an electronic database system, companies have instant access to facts and figures, thus eliminating the time other data collection methods need for transcribing survey answers. The proposed system will therefore target a wider and huger audience yielding more results,