



Parshvanath Charitable Trust's  
**A. P. SHAH INSTITUTE OF TECHNOLOGY**  
(Approved by AICTE New Delhi & Govt. of Maharashtra, Affiliated to University of Mumbai)  
(Religious Jain Minority)

## **Department of Information Technology**

**Academic Year: 2018-19**  
**Semester: VIII**

**Name: Sharma Shankarlal**  
**Class / Branch: BE/IT**

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**Project Title: An Academic Platform for Knowledge Sharing**

**Group No: 6**

**Group Members:**

1. Shankarlal Sharma
2. Dharmraj Yadav
3. Gaurav Babar
4. Satyajeet Yadav

**Guide:** Prof. Apeksha Mohite

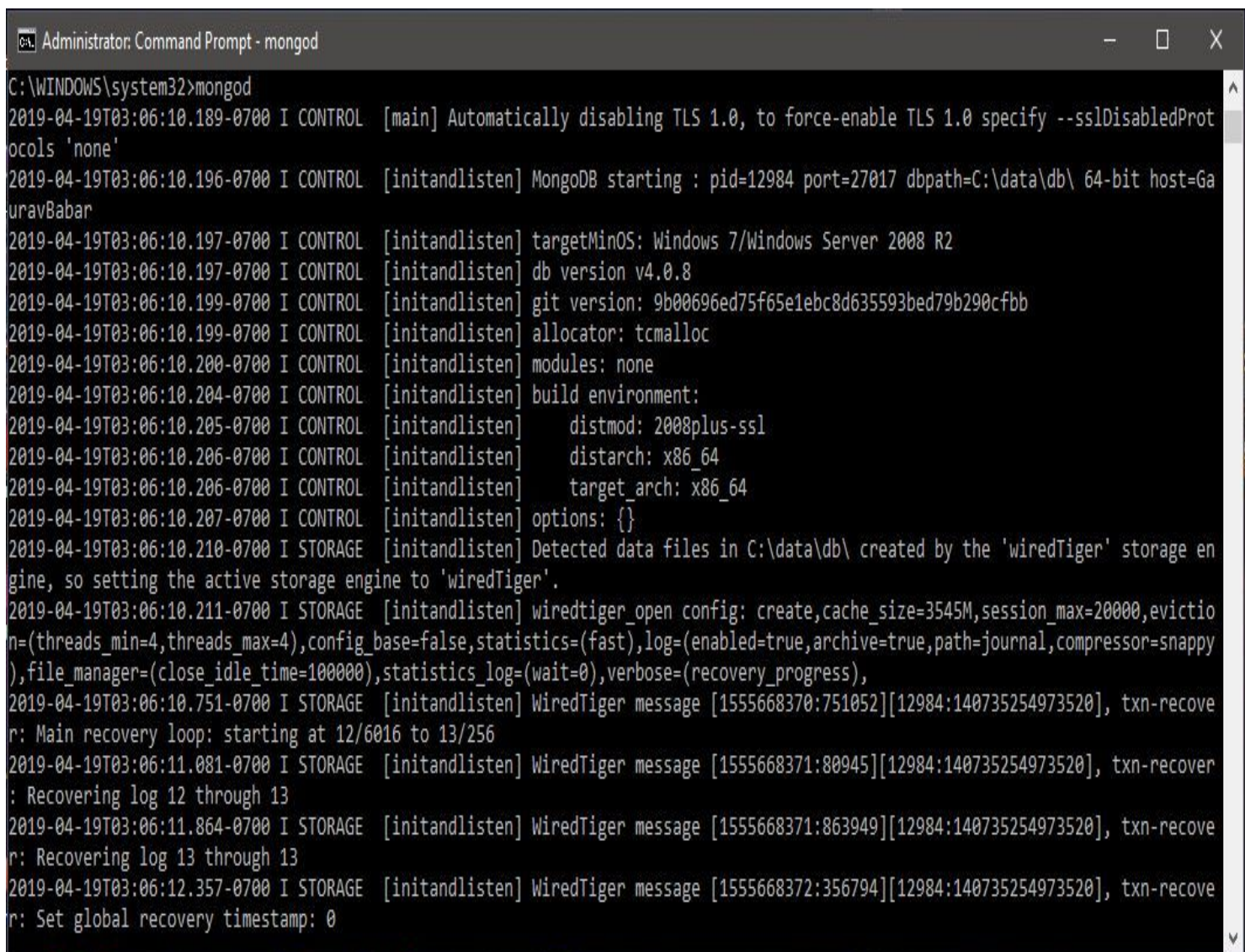
**Co Guide:** Prof. Neha Deshmukh

## Project Implementation Progress 3

### 1. Start MongoDB Server by typing the following in Command Prompt:

> mongod

Here, the mongod server is started, keep it running in a terminal.



```
C:\WINDOWS\system32>mongod
2019-04-19T03:06:10.189-0700 I CONTROL [main] Automatically disabling TLS 1.0, to force-enable TLS 1.0 specify --sslDisabledProtocols 'none'
2019-04-19T03:06:10.196-0700 I CONTROL [initandlisten] MongoDB starting : pid=12984 port=27017 dbpath=C:\data\db\ 64-bit host=Ga
uravBabar
2019-04-19T03:06:10.197-0700 I CONTROL [initandlisten] targetMinOS: Windows 7/Windows Server 2008 R2
2019-04-19T03:06:10.197-0700 I CONTROL [initandlisten] db version v4.0.8
2019-04-19T03:06:10.199-0700 I CONTROL [initandlisten] git version: 9b00696ed75f65e1ebc8d635593bed79b290cfbb
2019-04-19T03:06:10.199-0700 I CONTROL [initandlisten] allocator: tcmalloc
2019-04-19T03:06:10.200-0700 I CONTROL [initandlisten] modules: none
2019-04-19T03:06:10.204-0700 I CONTROL [initandlisten] build environment:
2019-04-19T03:06:10.205-0700 I CONTROL [initandlisten] distmod: 2008plus-ssl
2019-04-19T03:06:10.206-0700 I CONTROL [initandlisten] distarch: x86_64
2019-04-19T03:06:10.206-0700 I CONTROL [initandlisten] target_arch: x86_64
2019-04-19T03:06:10.207-0700 I CONTROL [initandlisten] options: {}
2019-04-19T03:06:10.210-0700 I STORAGE [initandlisten] Detected data files in C:\data\db\ created by the 'wiredTiger' storage en
gine, so setting the active storage engine to 'wiredTiger'.
2019-04-19T03:06:10.211-0700 I STORAGE [initandlisten] wiredtiger_open config: create,cache_size=3545M,session_max=20000,evictio
n=(threads_min=4,threads_max=4),config_base=false,statistics=(fast),log=(enabled=true,archive=true,path=journal,compressor=snappy
),file_manager=(close_idle_time=100000),statistics_log=(wait=0),verbose=(recovery_progress),
2019-04-19T03:06:10.751-0700 I STORAGE [initandlisten] WiredTiger message [1555668370:751052][12984:140735254973520], txn-recove
r: Main recovery loop: starting at 12/6016 to 13/256
2019-04-19T03:06:11.081-0700 I STORAGE [initandlisten] WiredTiger message [1555668371:80945][12984:140735254973520], txn-recover
: Recovering log 12 through 13
2019-04-19T03:06:11.864-0700 I STORAGE [initandlisten] WiredTiger message [1555668371:863949][12984:140735254973520], txn-recove
r: Recovering log 13 through 13
2019-04-19T03:06:12.357-0700 I STORAGE [initandlisten] WiredTiger message [1555668372:356794][12984:140735254973520], txn-recove
r: Set global recovery timestamp: 0
```

## 2. Run client and server concurrently by running following commands in a separate terminal:

> npm run dev

After this the concurrently module of npm package will get called and it will help us to run client and server at the same time.

```
npm
G:\finalyrproj\wikinotes>npm run dev

> wikinotes@1.0.0 dev G:\finalyrproj\wikinotes
> concurrently "npm run server" "npm run client"

[0]
[0] > wikinotes@1.0.0 server G:\finalyrproj\wikinotes
[0] > nodemon server.js
[0]
[1]
[1] > wikinotes@1.0.0 client G:\finalyrproj\wikinotes
[1] > npm start --prefix client
[1]
[1]
[1] > client@0.1.0 start G:\finalyrproj\wikinotes\client
[1] > react-scripts start
[1]
[0] [nodemon] 1.18.10
[0] [nodemon] to restart at any time, enter `rs`
[0] [nodemon] watching: *.*
[0] [nodemon] starting `node server.js`
[0] Server running on port 5000
[0] MongoDB Connected...
[1] Starting the development server...
[1]
[1] Compiled with warnings.
[1]
[1] ./src/components/Subject/LearnBetter/LearnBetter.js
[1] Line 13: img elements must have an alt prop, either with meaningful text, or an empty string for decorative image
s jsx-a11y/alt-text
```

### 3. Course selection page:

Here, the user can select their Branch, Semester and Subject. On selecting Branch and semester, the respective subjects from the database will be fetched and displayed and the user can select their subject accordingly.

[WikiNotes](#) [Start Learning](#) [Register](#) [Login](#)

### Select branch

Information Technology

### Select Semester

Semester 8

### Select Subject

Storage Network Management and Retrieval

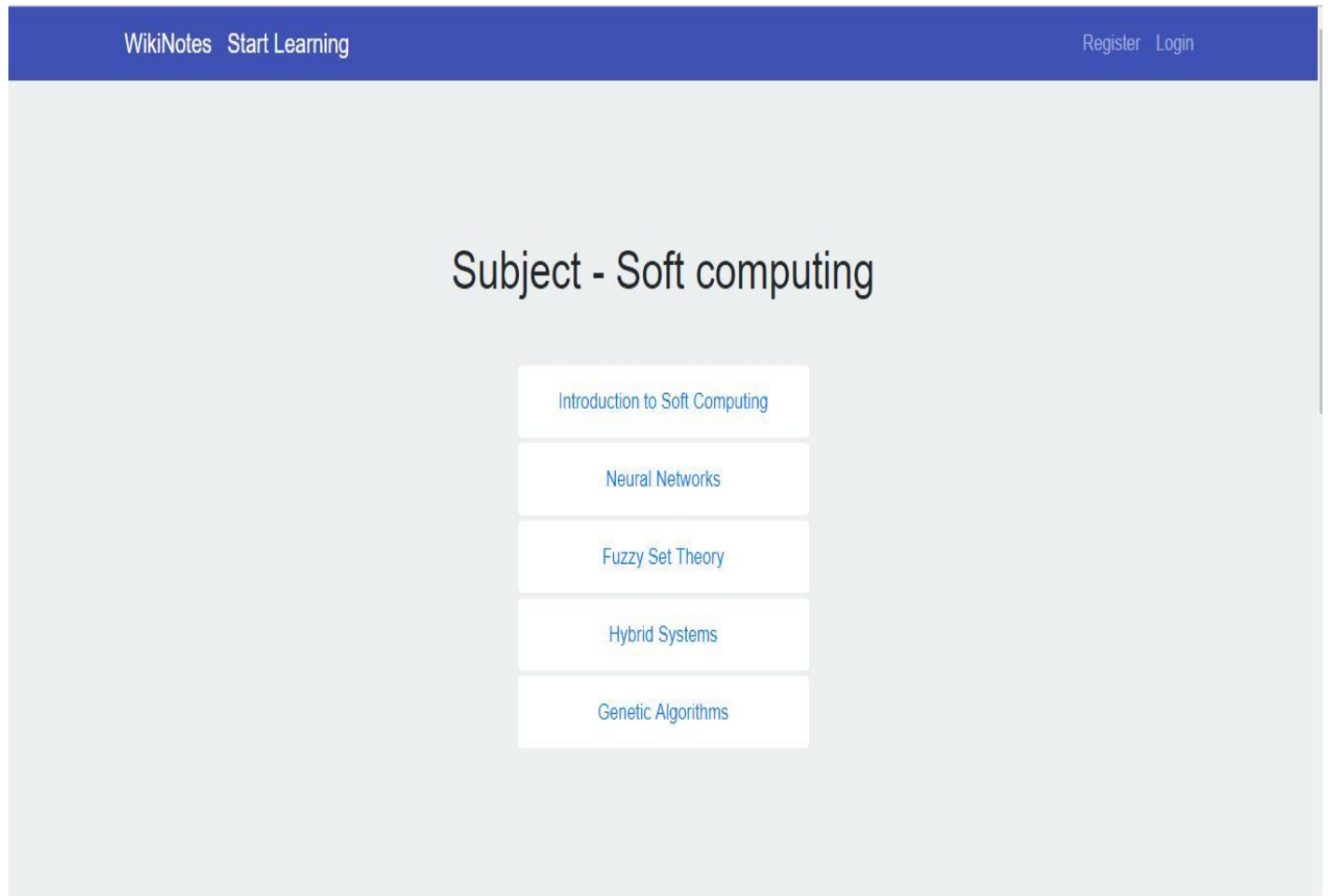
Big Data Analytics

Computer Simulation and Modeling

Soft computing

#### 4. Subject page:

On this page, corresponding modules of that subject will be displayed which will be fetched from the database, here user can select any topic, they want to learn.



## 5: Module page:

Here, the topics of the selected module will be fetched from the database and get displayed.

WikiNotes   Start Learning

Welcome Gaurav   Logout

Introduction to Soft Computing

Neural Networks

Fuzzy Set Theory

Hybrid Systems

Genetic Algorithms

Introduction to Soft Computing

Neural Networks Definition

Neural Networks Advantages

Neural Networks Applications

Neural Networks Scope

Fuzzy Logic Definition

Fuzzy Logic Applications

Hybrid System Definition



## 6: Topics page:

After selecting a topic, user will be able to read the content here on topic page. The user can like, comment, share, and choose to upload their own notes by clicking on upload button.

[WikiNotes](#) [Start Learning](#)

Welcome Gaurav [Logout](#)

# Introduction to Soft Computing (Soft Computing) ← →

[Topic](#)  
[Videos](#)  
[Pracs](#)  
[Q&A](#)  
[More](#)  
[Recommended](#)

## Neural Networks Definition

### Neural Networks

A neural network is a network or circuit of neurons, or in a modern sense, an artificial neural network, composed of artificial neurons or nodes.[1] Thus a neural network is either a biological neural network, made up of real biological neurons, or an artificial neural network, for solving artificial intelligence (AI) problems. The connections of the biological neuron are modeled as weights. A positive weight reflects an excitatory connection, while negative values mean inhibitory connections. All inputs are modified by a weight and summed. This activity is referred as a linear combination. Finally, an activation function controls the amplitude of the output. For example, an acceptable range of output is usually between 0 and 1, or it could be -1 and 1.

[Like](#) [Comment](#) [Share](#) [Upload](#)

## 7: Uploads page:

On clicking upload button, the user will be presented with a rich-text editor, by using which the user will be able to create content containing text, images, videos and many other features a text editor provides. On clicking the publish button, the entry will be made into database.

# Introduction to Soft Computing (Soft Computing)

Topic

Videos

Pracs





Q&A

More

Recommended

## Neural Networks Definition

**B** *I* U ~~S~~ `{ }`  $x^2$   $x_2$  Normal 16 Font

Hey add **Content** here

Publish

Like

Comment

Share

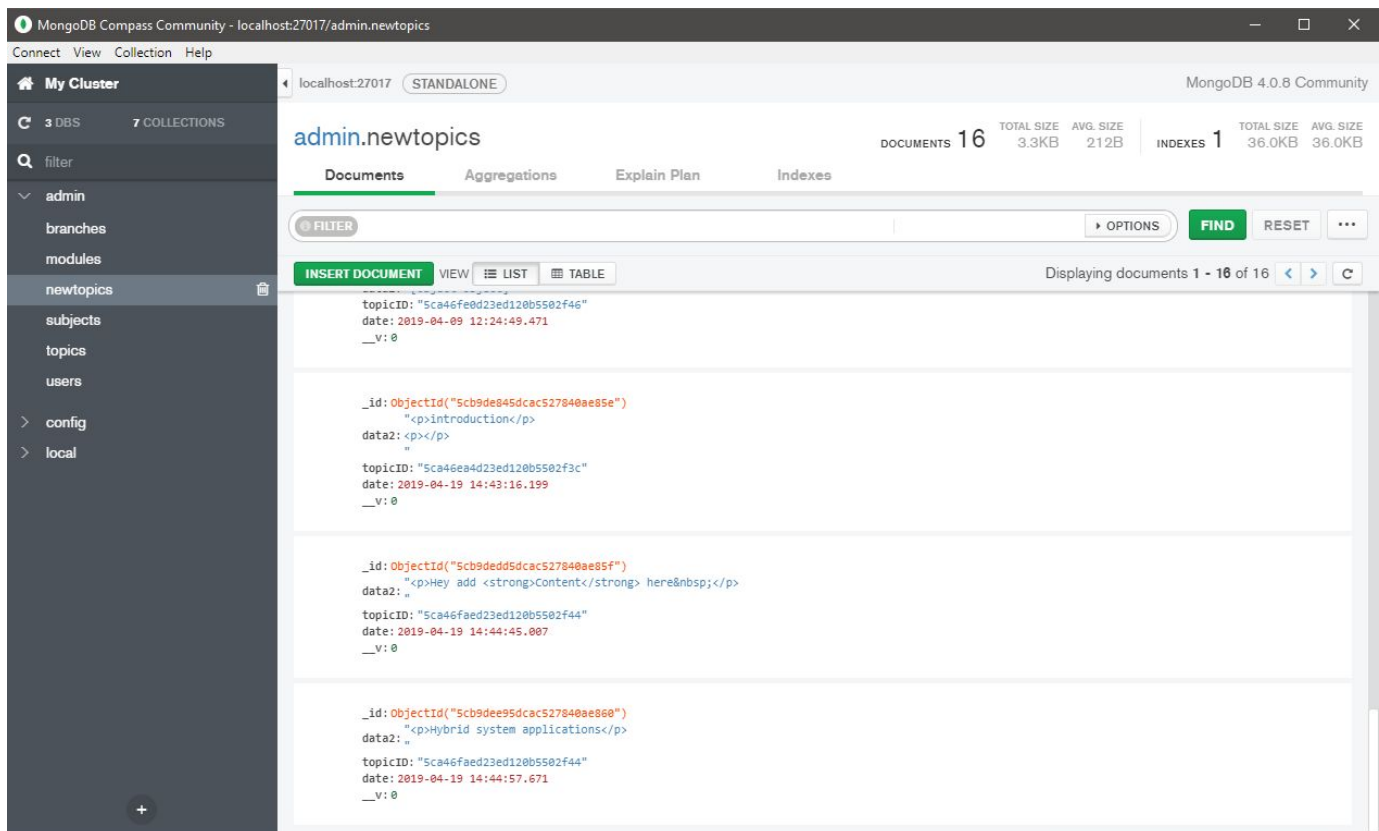
Upload

Dictionary



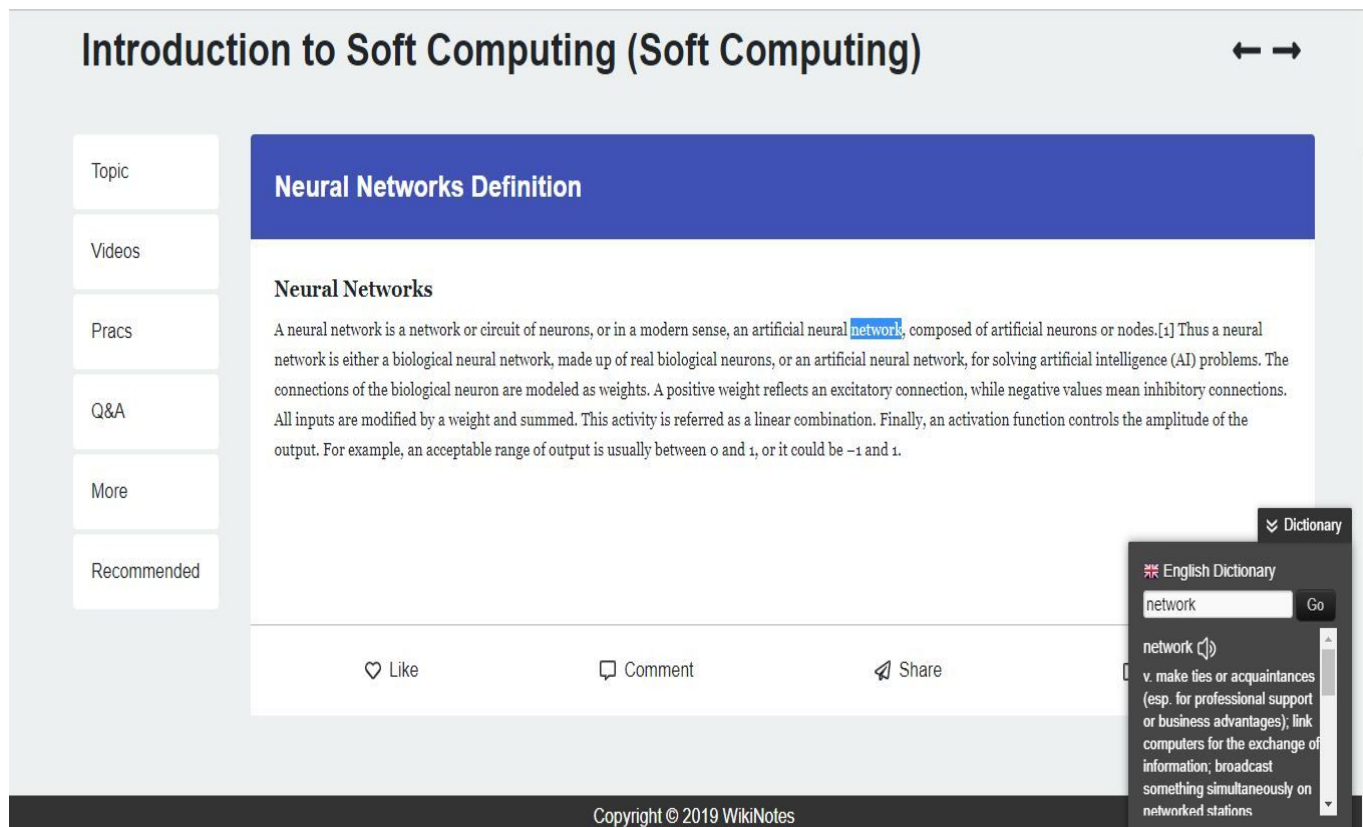
## 8: Uploaded content in MongoDB:

The following screenshot shows the mongodb collection where the content is stored based on topic id. The content is first converted into html format by using convertToRaw functionality of the editor and then stored into the database. After this, the content can be converted back into text format by using convertFromRaw function.



## 9: Dictionary Box implementation:

The website features a dictionary button available at bottom right corner of the page. If any user has any difficulty understanding the content, then they can select the word and the dictionarybox api will be fetched and the box will popup displaying the meaning of the word to the user.



## Conclusion:

In this implementation, we have built the functionality of our project where the user is able to view the subjects of their semester and branch and select the module and topic which they want to study. Also, the user is able to upload their own content. Also, if the user has difficulty in understanding a particular word then they are able to select the word and, they will get the meaning of that word at the bottom right corner of screen.