



Department of Computer Science & Engineering

UE17CS355 - Web Tech II Laboratory

# Project Evaluation

Project Title : BLOG APPLICATION

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## Project Description

- We created a Multi - Blog application which allows all the authenticated users to publish their articles.  
Along with the basic functionalities of publishing articles , strong authentication mechanism which includes the use of JWT(JSON Web Token) which is generated after every login.The user also has the option to upload his profile picture during signup.
- Each user can also add likes and comments to each articles.Each article is also tagged with “Topic” associated with the article and this tag is automatically generated and user can also add their tags if needed.
- Each user also has an Profile page which lists down all the articles written by the user and it also displays the statistics of the user which include number of likes,comments received and number of articles written.



## Technologies Used

The MERN stack was used for building the Blogging Application , which expands to MongoDB , Express , ReactJS and NodeJS.

- **FrontEnd :** The frontend of the application was designed using ReactJS which is a javascript library for building user interface.The application also makes use of React bootstrap for designing react components.
- **BackEnd :** The backend for the application was designed using Express JS as the backend framework which provides way to handle requests and routes.For the database part , MongoDB is used along with mongoose which is object data modeling library for mongoDB and NodeJS.The backend also uses several modules for implementing mechanisms such as security , automatic tagging and for uploading user images such as JWT , TextRazor and Multer respectively.



## Techniques Implemented

The Blog application also comes along with few of the techniques implemented which include RESTful API and RSS Feed.

- **RESTful API :** The RESTful API are implemented in terms of NodeJS API which has several endpoints for each functionality such as user login , user signup , like an article , comment an article , get an particular article , get all articles and many more. These endpoints follow REST principles such as Uniform Interface , Being Stateless , operations such as GET,POST,DELETE etc.
- **RSS Feed :** The Blog application also has an seperate section which displays live RSS Feed. The RSS Feed provides the major headlines along with the title and link to the highlighted news.





## Intelligent Functionality

For the intelligent functionality part , we tried our hands out on creating “Automatic Tag Generator” .

- When the user completes writing the article , there is often a need to categorise the article under several topics so that the users can choose to read articles based on his topics which he is interested.
- The Automatic Tag Generator upon receiving the article , analyses the text part of the article and then generates appropriate top 4 tags.
- The user can select any number of 4 tags generated automatically and then also choose to add his own tags if needed.
- To implement this , we make use of module called “TextRazor” which is one of the Natural Language Processing API available to use under npm.
- We try and find out keywords in the article and then try to appropriately classify based on the built-in tags in textrazor.



Thank You

