

Knowledge Discovery and Management

Project Phase – II Report

By

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Blogger Locale

Introduction:

Blogger Locale is an online blog which provides a smart way of posting articles, promotions, questions and all types of software related enquiries. Latest technological improvements, new ideas can be shared with different people. People can get aware of social issues; new languages can be others.

Human right groups, NGOs needs a medium to interact with the people to create social awareness of a social cause, our bog will help them to reach huge number of people online. One can use our blog to communicate with their friends and families. People will use to have fun and to be creative.

Project Goals and Objectives:

Here in our project we are going to design a blog which helps the people to share their knowledge. Our main objective is to make it more user friendly by inclusion of some interesting NLPs which will help the people to raise the questions from the already available ones. People can filter they needs based on the tags we provide.

Users can register themselves and can customize their profiles according to their interests. People can comment on the post already been online and can get feedback for that.

We are going to use most popular framework, bootstrap to implement HTML, CSS and JS for developing responsive, mobile first projects on the web i.e., we can even operate this blog from the mobile devices, tablets which makes it more convenient.

Objectives:

1. Make it available both on we as well as on the mobile platforms.
2. Designing a better looking User Interface.
3. Usage of NLPs for suggestions to the user posts.

System Design:

We are designing a three tier architecture which contains front end, business layer and database layer.

Front End:

This layer provides and Graphical User Interface, through which the users can operate and can request for information and can visualize the results.

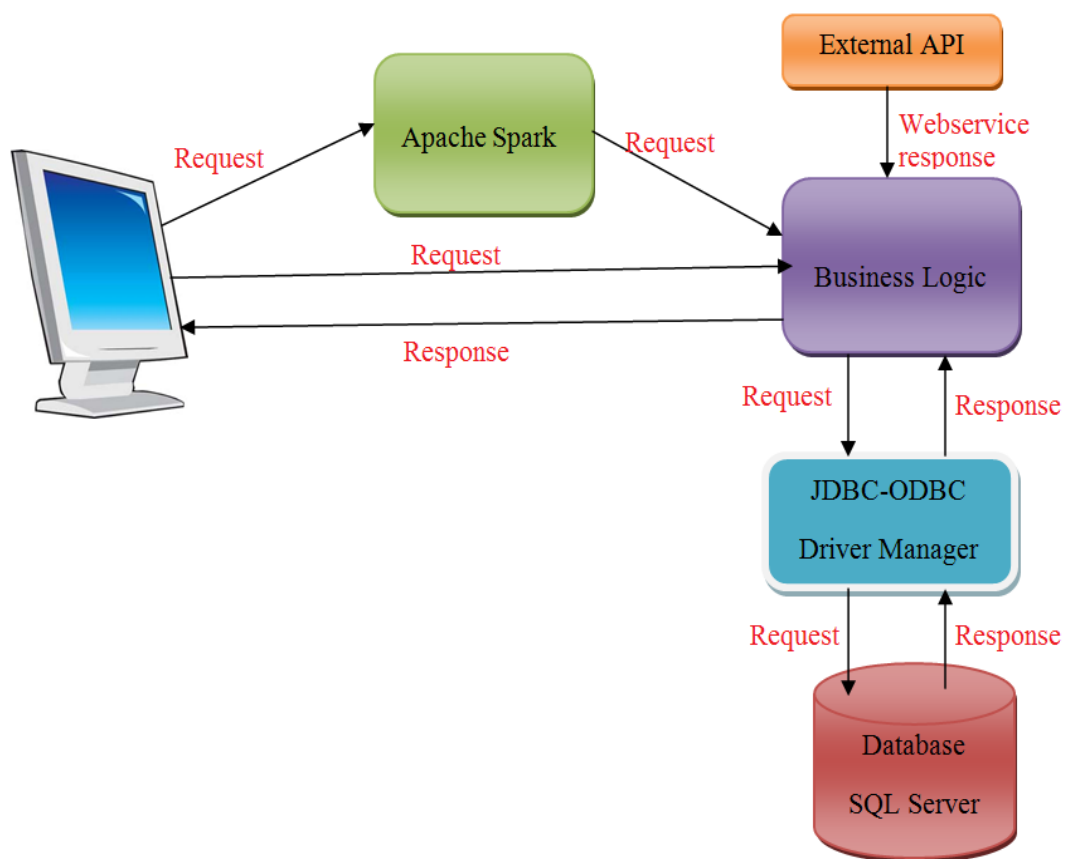
Business Layer:

This layer contains all the business logic and functionalities that validates, updates and control the data through and out of the database.

Database Layer:

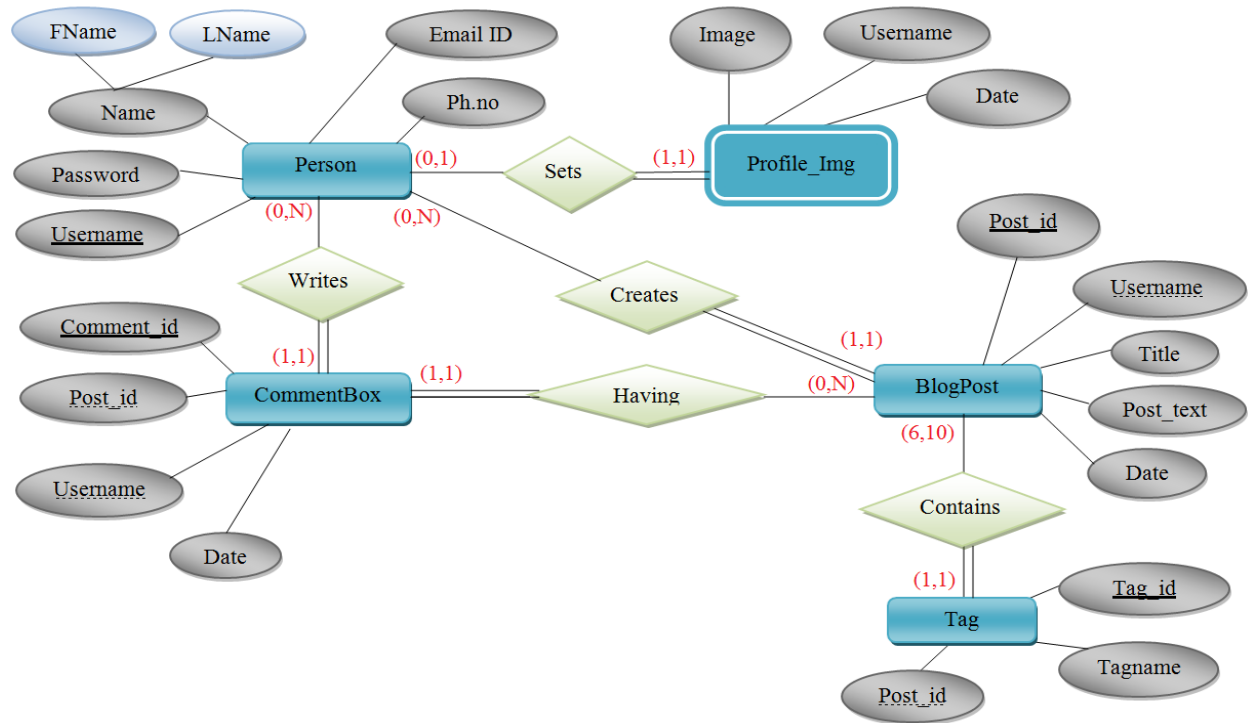
This layer acts as a storage unit for the Blog which can store and retrieve data as per the request from the user and as per the commands from the business logic.

Architecture Diagram:

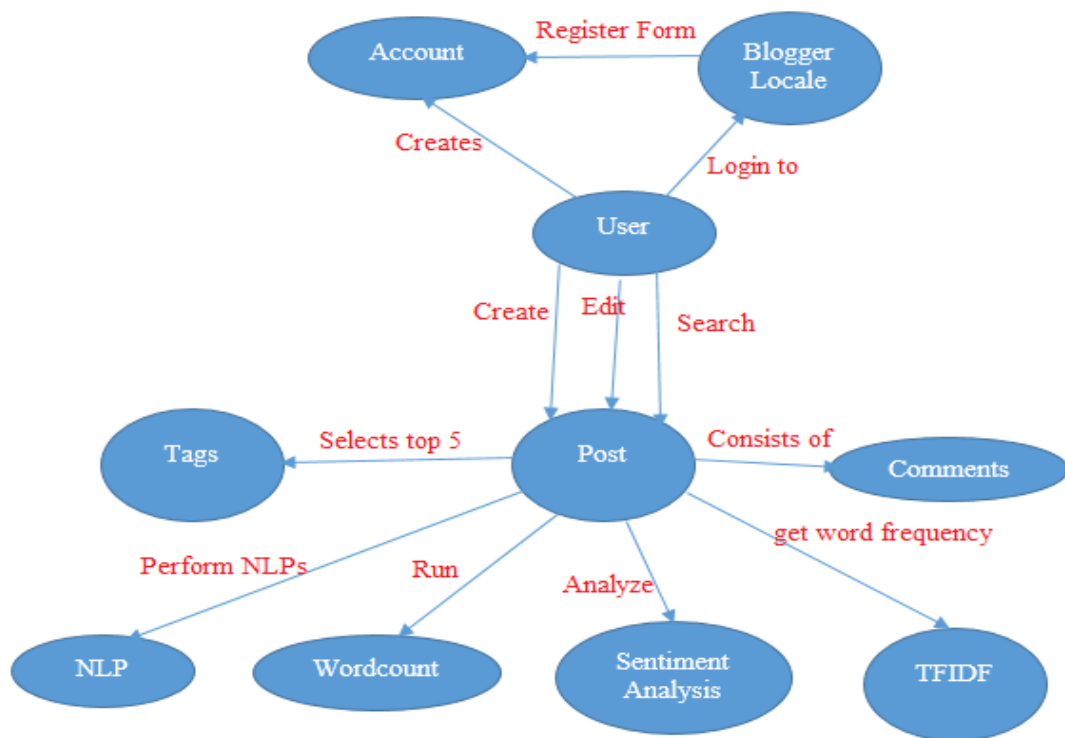


ER Diagram:

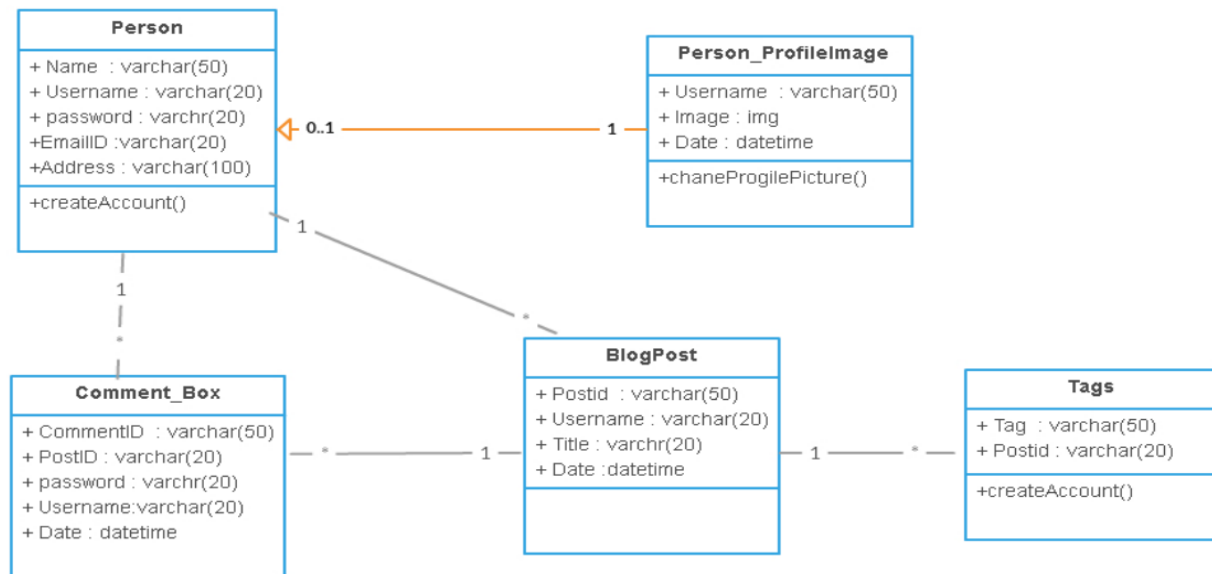
An entity-relationship diagram is a model representing the information system in the graphical form which shows the relationship between places, concepts, people, objects, or events within that system.



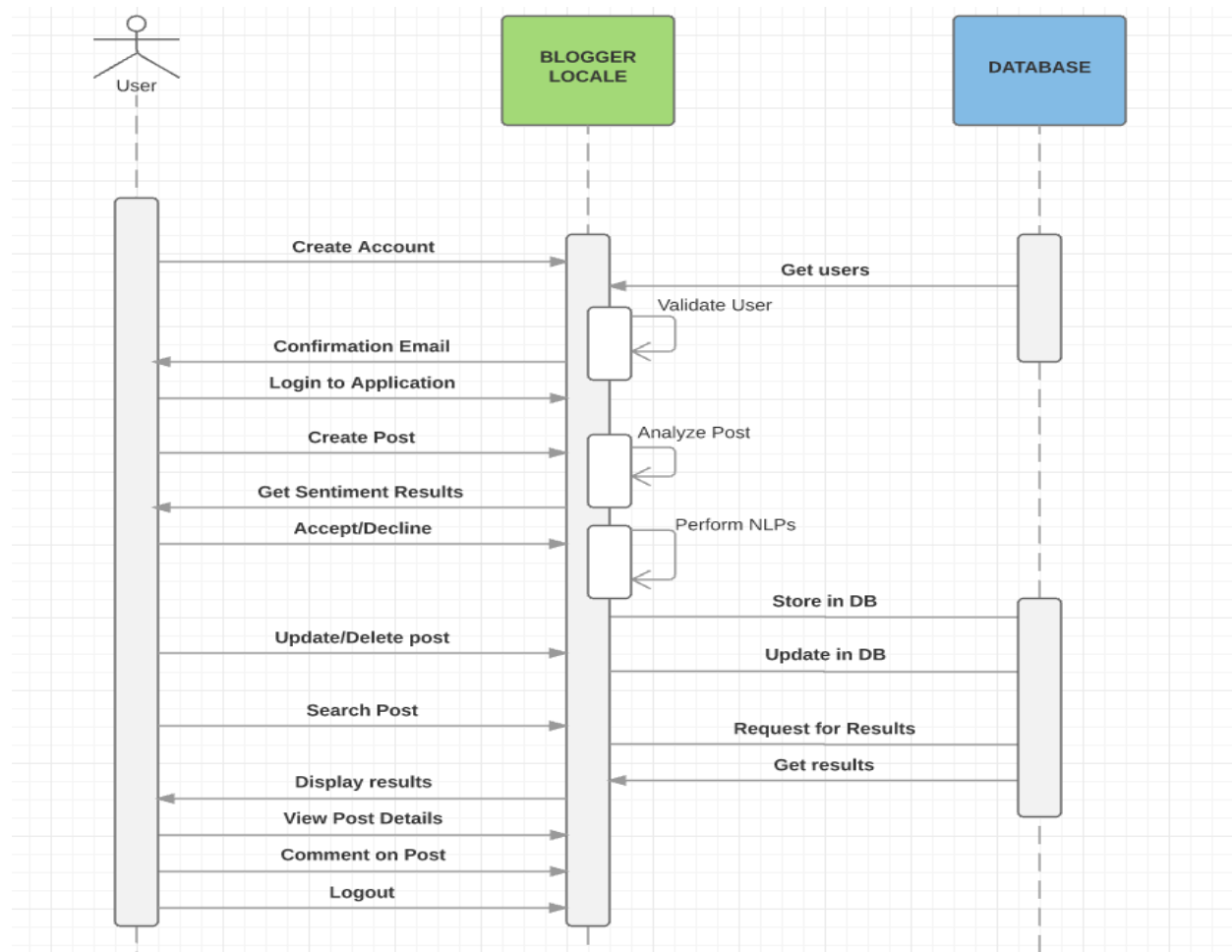
Knowledge Graph:



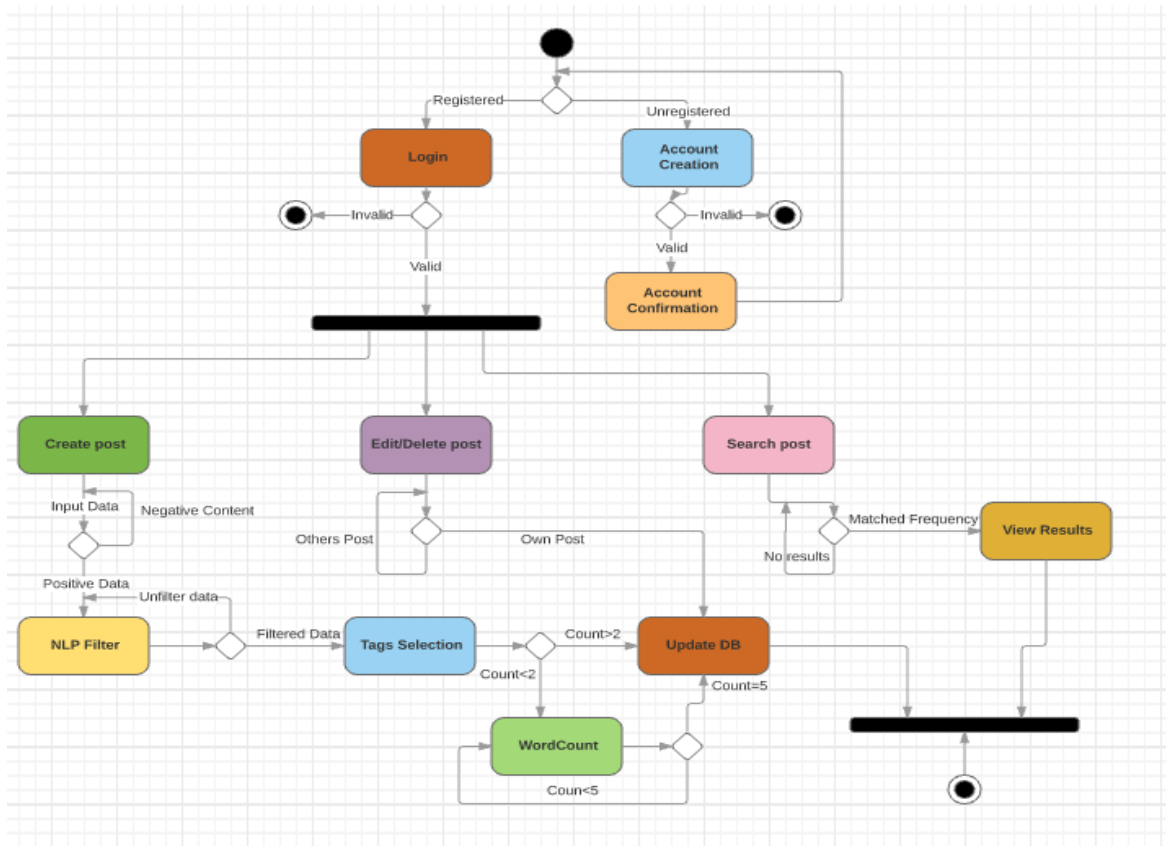
Class Diagram:



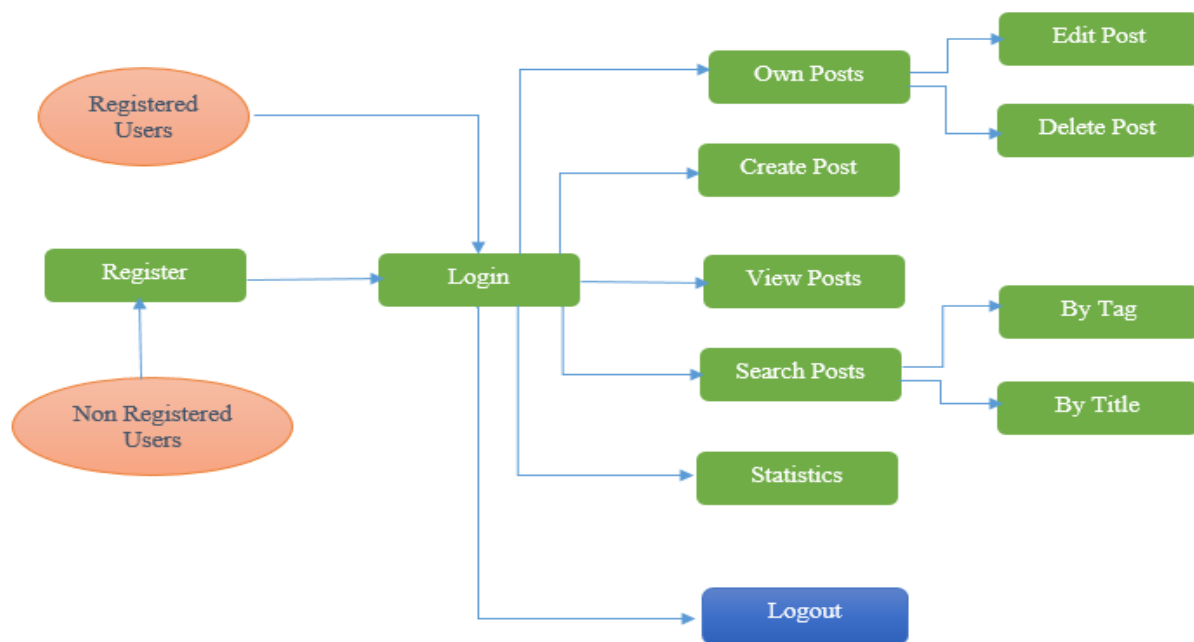
Sequence Diagram:



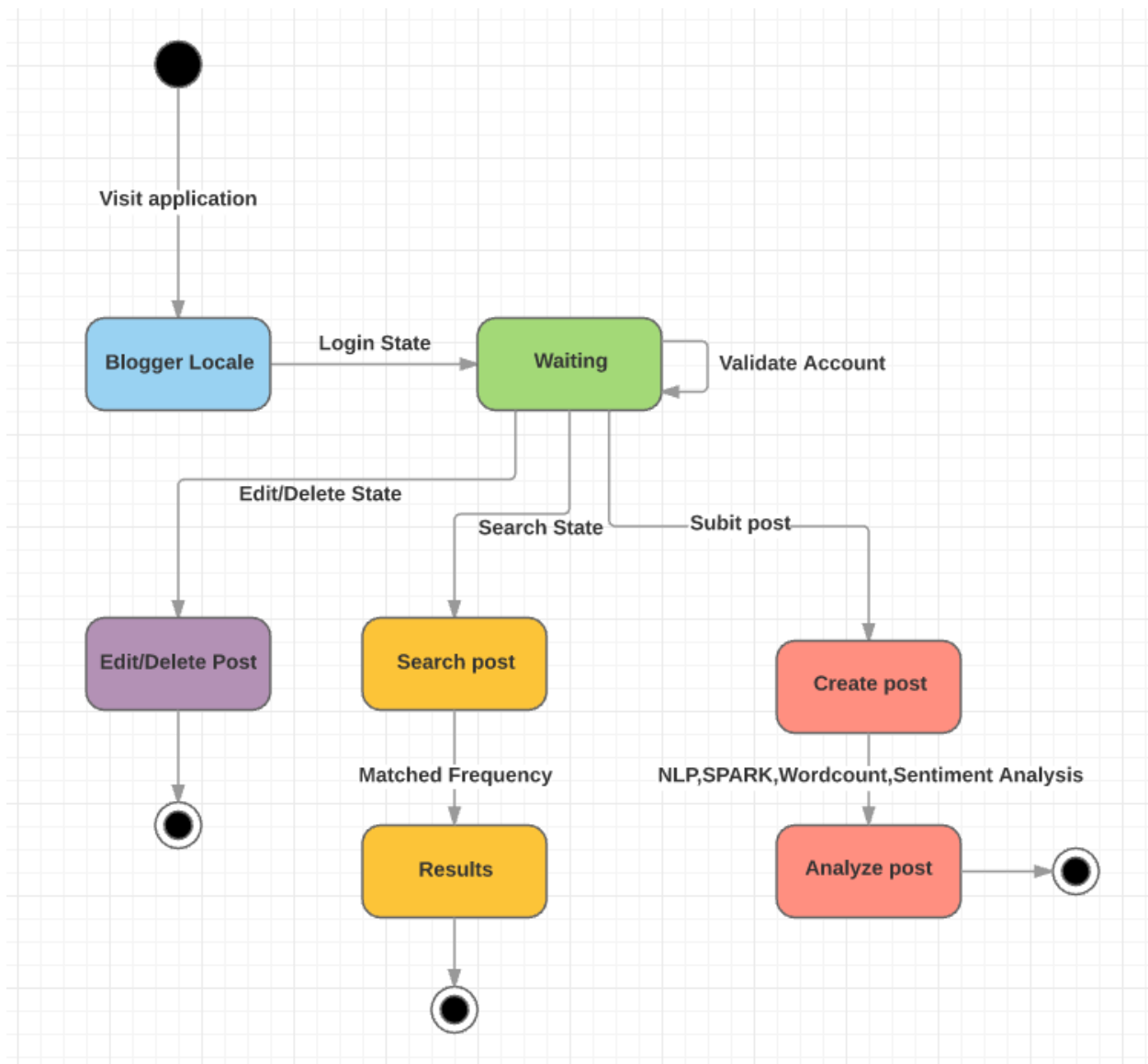
Activity Diagram:



Work flow Diagram:



State Diagram:



Technologies Being Used:

Front End : Bootstrap, HTML, CSS, JQuery, Java Script.

Business Logic : Java, Spark, JavaNLPs

Database : MSSQL 2008

Tools : Eclipse

Project Plan

Phase - I

1. Discussion of project Plan, requirements,
2. Requirements Review meeting
3. Designing class, UML, state and coming with an architecture diagram.
4. Design of web pages.
5. Form validations
6. Database integration
7. Functionalities
8. Analyzing a post by using sentimental analysis.

Phase -II

1. Inclusion of NLPs for Tag based search.
2. Inclusion of NLPs for showing the suggestions with machine learning from the data sets already available.
3. Wikipedia Search.
4. Google Search
5. Edit, delete or update post

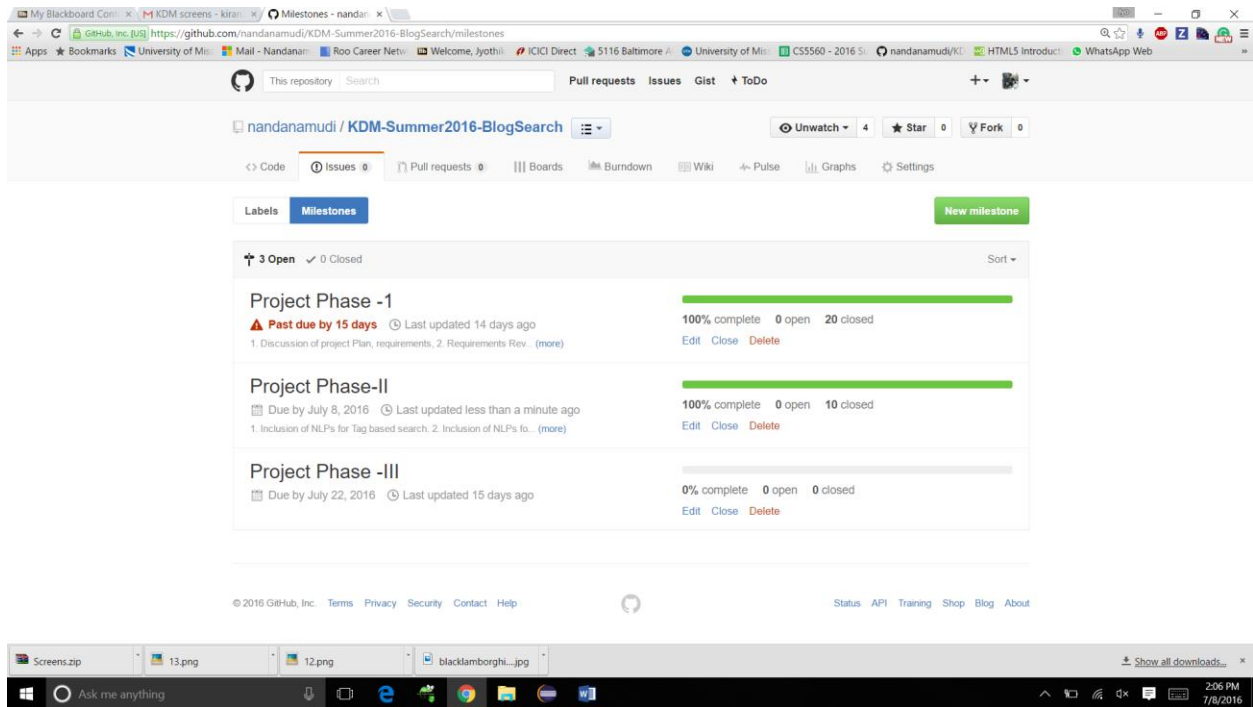
Phase - III

1. Hosting online.

Features of Our Project:

1. User account registration
2. Submission of post either by static or file upload or API
3. Usage of NLPs for Lemmatization and stop word removal.
4. Identification of tags using TF IDF NLP.
5. Inclusion of Word2vec NLP for tags of the post for filtering while searching for a post.
6. Suggestion of tags based on the existing data sets.
7. Intelligent search of posts from the existing data sets and searching online using Google API.
8. Wikipedia Search Engine for information while writing a post.
9. Google Search Engine for information while writing a post.
10. Edit, delete or update a post by using a filter of posts.
11. Comments on the post.
12. Statistics on post being posted daily.

Milestones:

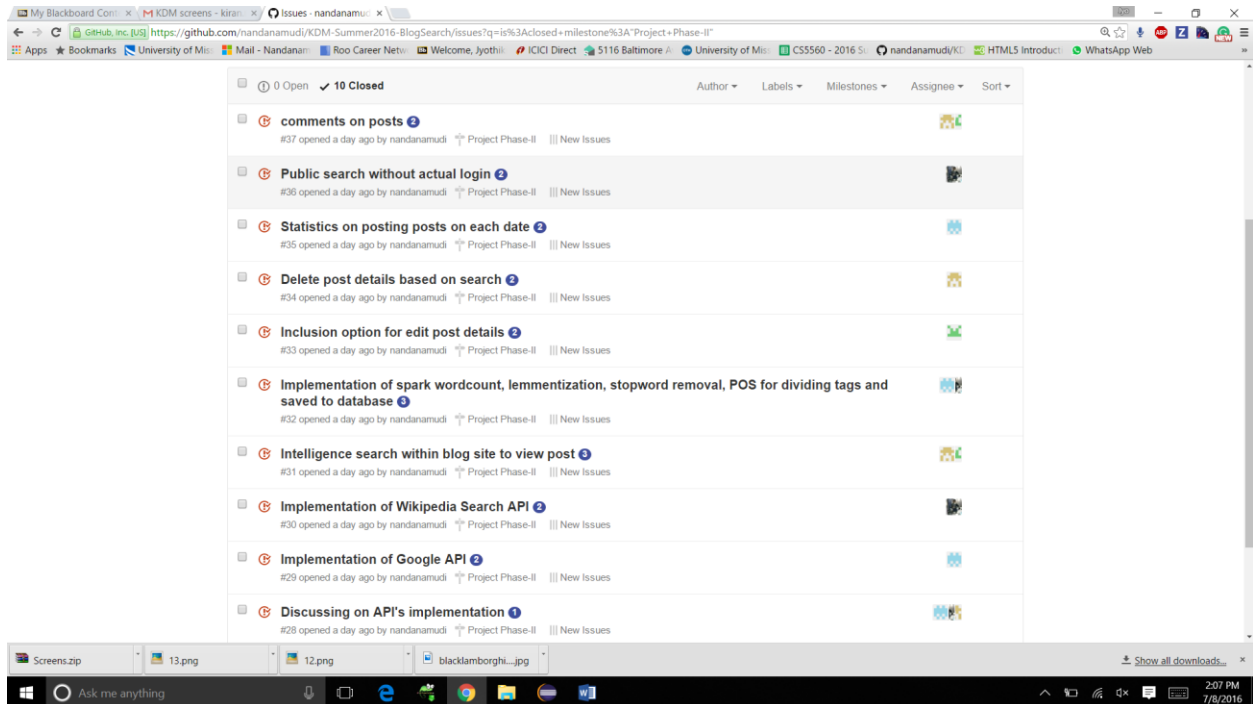


The screenshot shows the GitHub interface for the repository `nandanamudi/KDM-Summer2016-BlogSearch`. The 'Milestones' tab is selected, displaying a list of three milestones:

- Project Phase -I**
 - Status: **Past due by 15 days** (Last updated 14 days ago)
 - Progress: 100% complete (0 open, 20 closed)
 - Description: 1. Discussion of project Plan, requirements, 2. Requirements Rev. (more)
- Project Phase-II**
 - Status: Due by July 8, 2016 (Last updated less than a minute ago)
 - Progress: 100% complete (0 open, 10 closed)
 - Description: 1. Inclusion of NLPs for Tag based search, 2. Inclusion of NLPs fo... (more)
- Project Phase -III**
 - Status: Due by July 22, 2016 (Last updated 15 days ago)
 - Progress: 0% complete (0 open, 0 closed)
 - Description: (empty)

The bottom of the screen shows the Windows taskbar with the time 2:06 PM on 7/8/2016.

Closed Issues for Phase - I:

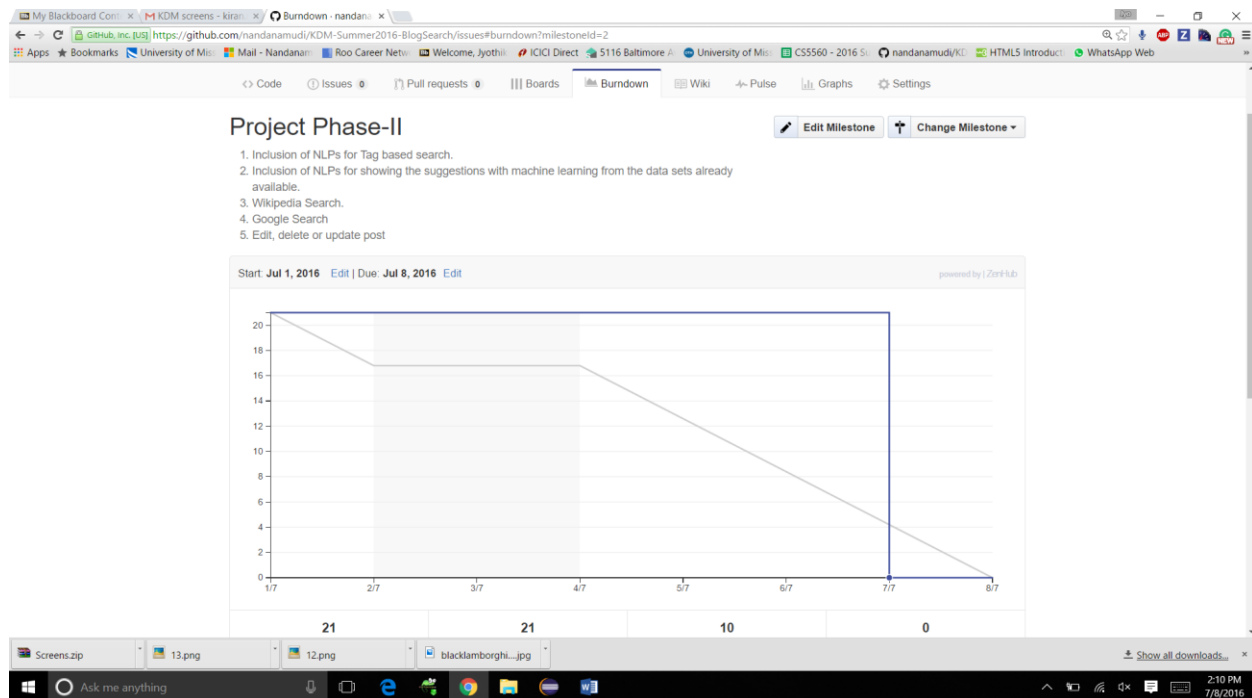


The screenshot shows the GitHub interface for the repository `nandanamudi/KDM-Summer2016-BlogSearch`, filtered to show closed issues for 'Project Phase-I'. There are 10 closed issues listed:

- #37: comments on posts (opened a day ago by nandanamudi)
- #36: Public search without actual login (opened a day ago by nandanamudi)
- #35: Statistics on posting posts on each date (opened a day ago by nandanamudi)
- #34: Delete post details based on search (opened a day ago by nandanamudi)
- #33: Inclusion option for edit post details (opened a day ago by nandanamudi)
- #32: Implementation of spark wordcount, lemmatization, stopword removal, POS for dividing tags and saved to database (opened a day ago by nandanamudi)
- #31: Intelligence search within blog site to view post (opened a day ago by nandanamudi)
- #30: Implementation of Wikipedia Search API (opened a day ago by nandanamudi)
- #29: Implementation of Google API (opened a day ago by nandanamudi)
- #28: Discussing on API's implementation (opened a day ago by nandanamudi)

The bottom of the screen shows the Windows taskbar with the time 2:07 PM on 7/8/2016.

Project Phase – I Burndown Chart:



Project Management

Responsibilities:

- Discussing on API's implementation
 - Implementation of Google API
 - Implementation of Wikipedia Search API
 - Intelligence search within blog site to view post
 - Implementation of spark wordcount, lemmatization, stopword removal, POS for dividing tags and saved to database
 - Inclusion option for edit post details
 - Delete post details based on search
 - Statistics on posting posts on each date
 - Public search without actual login
 - comments on posts
- Whole team
 - Ashok
 - Jyothi Kiran
 - Pratap & Sai Tejaswi
 - Ashok & Jyothi Kiran
 - Sai Tejaswi
 - Pratap
 - Ashok
 - Jyothi Kiran
 - Pratap, Sai Tejaswi

Time taken: 84 Hrs

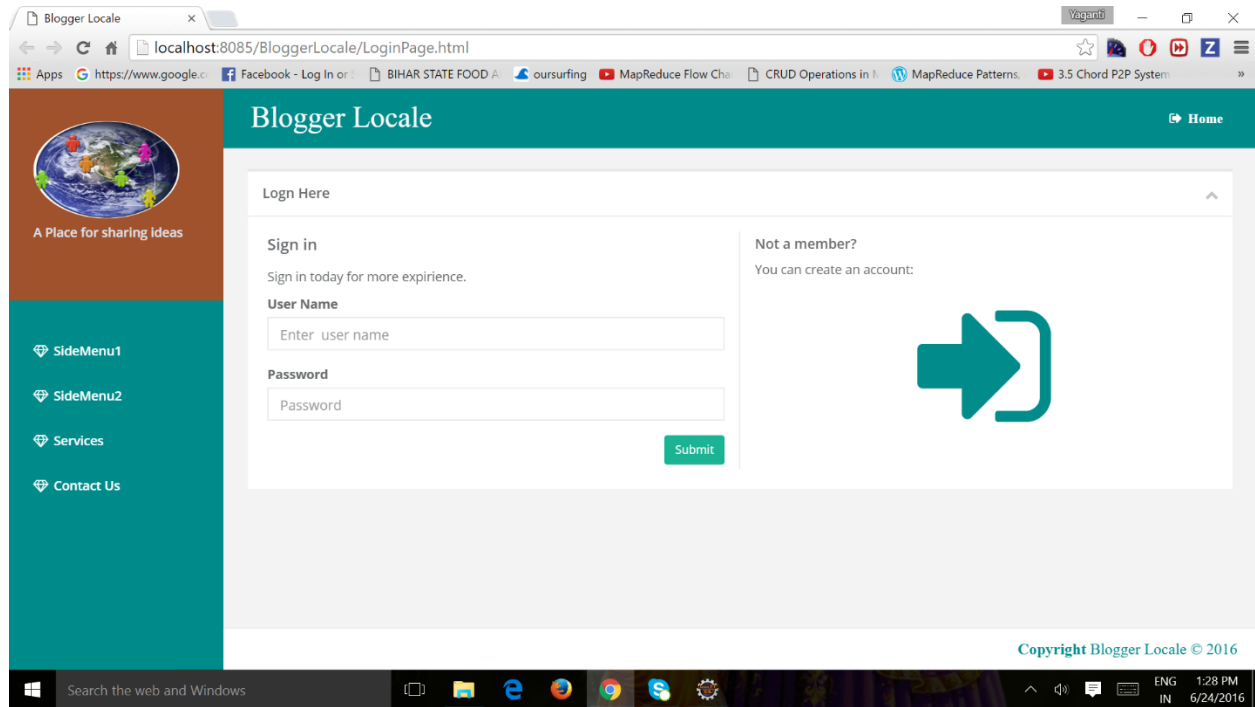
Contributions:

1. Ashok Yaganti - 25%
2. Jyothi Kiran Nandanamudi - 25%
3. Sai Tejaswi Pullela - 25%
4. Pratap Rao Kadari - 25%

Results:

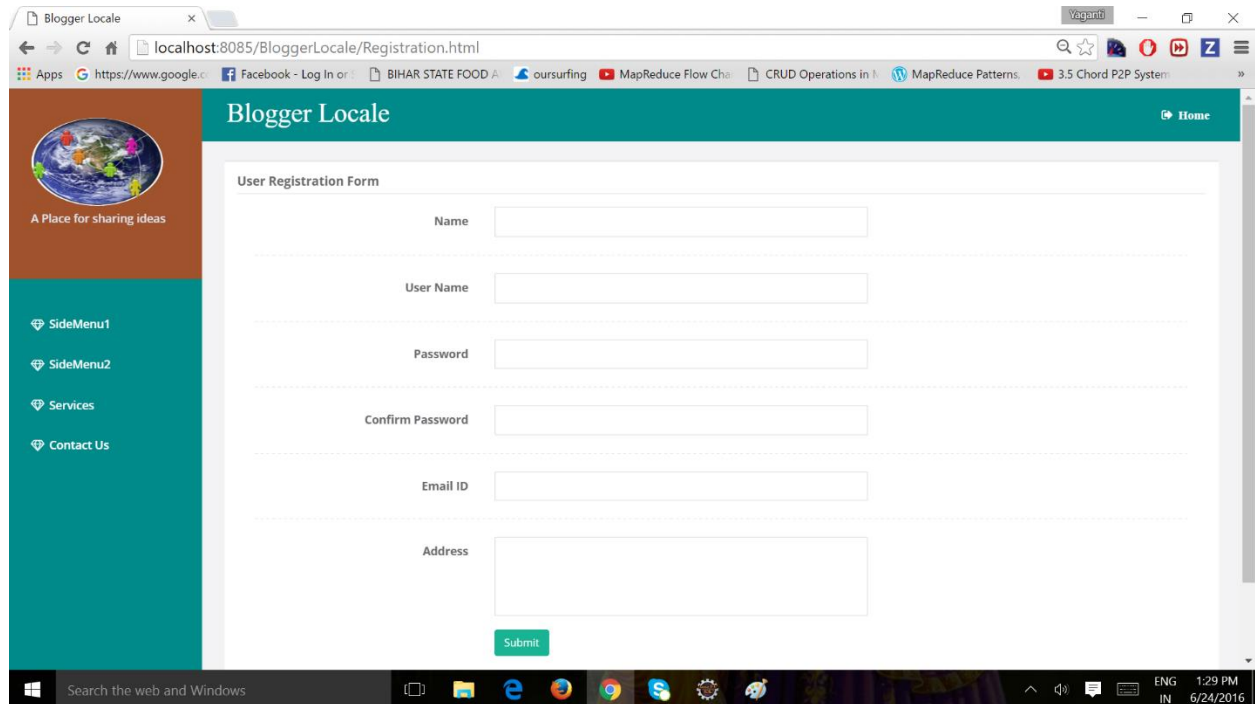
User Interface:

Login Page: User Can Login from Here



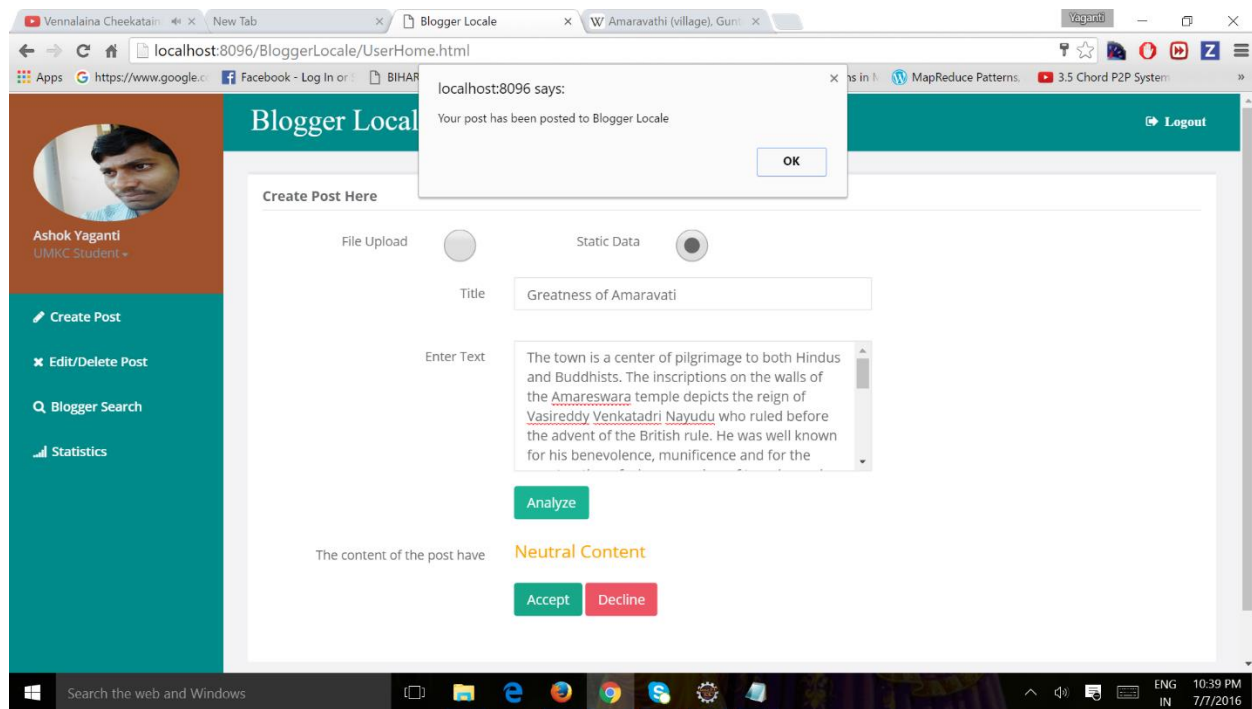
The screenshot shows a web browser window displaying the Blogger Locale login page. The browser's address bar shows the URL `localhost:8085/BloggerLocale/LoginPage.html`. The page has a teal header with the text "Blogger Locale" and a "Home" link. On the left, there is a sidebar with a globe icon and the text "A Place for sharing Ideas", followed by a list of links: "SideMenu1", "SideMenu2", "Services", and "Contact Us". The main content area is titled "Logn Here" (note the typo) and contains a "Sign in" section with fields for "User Name" (placeholder: "Enter user name") and "Password" (placeholder: "Password"), and a "Submit" button. To the right of the sign-in fields is a "Not a member?" section with the text "You can create an account:" and a large teal arrow pointing right. The footer of the page says "Copyright Blogger Locale © 2016". The Windows taskbar at the bottom shows the search bar and several application icons.

Register Page: User Can Register and can personalize his blog account

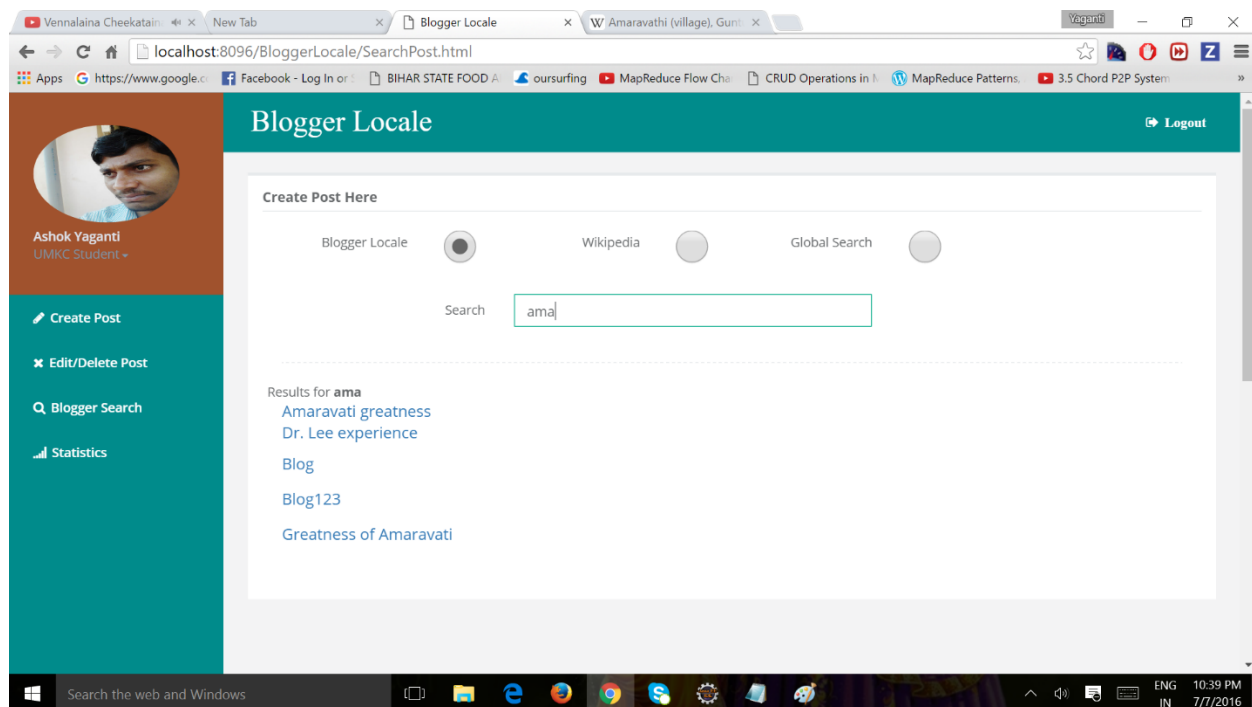


The screenshot shows a web browser window displaying the Blogger Locale registration page. The browser's address bar shows the URL `localhost:8085/BloggerLocale/Registration.html`. The page has the same teal header and sidebar as the login page. The main content area is titled "User Registration Form" and contains several input fields: "Name", "User Name", "Password", "Confirm Password", "Email ID", and "Address". Each field is followed by a dashed line indicating a required field. At the bottom of the form is a "Submit" button. The footer of the page says "Copyright Blogger Locale © 2016". The Windows taskbar at the bottom shows the search bar and several application icons.

Post Submission: User can submit post after satisfaction with the content



Search Based On Tags: Search posts, already posted based on title, tags & post.



Wikipedia Search: Search Wikipedia for information while writing a post

The screenshot shows a web browser window with the address bar displaying 'localhost:8096/BloggerLocale/SearchPost.html'. The page title is 'Blogger Locale'. On the left sidebar, there is a user profile for 'Ashok Yaganti' (UMKC Student) and a menu with options: 'Create Post', 'Edit/Delete Post', 'Blogger Search', and 'Statistics'. The main content area is titled 'Create Post Here' and features three radio buttons for search sources: 'Blogger Locale', 'Wikipedia' (which is selected), and 'Global Search'. Below these is a search input field containing the text 'dharma'. The search results for 'dharma' are displayed below the input field. The results include a definition of Dharma as a term in Indian religions, a link to 'Dharma talk', a definition of 'Dharmachakra', and a link to 'Dharma Initiative'.

Blogger Locale Logout

Create Post Here

Blogger Locale Wikipedia Global Search

Search dharma

Results for **dharma**

Dharma
term in Indian religions. For other uses, see Dharma (disambiguation). Dharma ([d̪əɾmə]; Sanskrit: धर्म dharma, listen (help·info); Pali: धम्म dhamma) is **Dharma (disambiguation)**
Dharma is a philosophical or religious concept of Indian origin. Dharma (Sanatana or Hindu) Dharma (Buddhism) Dharma (Jainism) Sikh Dharma Dharma may

Dharma talk
A Dharma talk (Sanskrit) or Dhamma talk (Pali) or Dharma sermon (Japanese: 法語 teisho (ほうご, Hōgo), Chinese: 法語) is a public discourse on Buddhism by a Buddhist

Dharmachakra
of the Dharma"), is one of the Ashtamangala of Indian religions such as Jainism, Buddhism and Hinduism. It has represented the Buddhist dharma, Gautama

Dharma Initiative
The Dharma Initiative, also written DHARMA (Department of Heuristics and Research on Material Applications), is a fictional research project featured in Dharma (Jainism)

Google Search: Search google for information while writing a post

The screenshot shows a web browser window with the address bar displaying 'localhost:8096/BloggerLocale/SearchPost.html'. The page title is 'Blogger Locale'. On the left sidebar, there is a user profile for 'Ashok Yaganti' (UMKC Student) and a menu with options: 'Create Post', 'Edit/Delete Post', 'Blogger Search', and 'Statistics'. The main content area is titled 'Create Post Here' and features three radio buttons for search sources: 'Blogger Locale', 'Wikipedia', and 'Global Search' (which is selected). Below these is a search input field containing the text 'Amara'. The search results for 'Amara' are displayed below the input field. The results include a link to 'Amara - Raw organic sports drink for fitness enthusiasts', a link to 'Amara - Caption, translate, subtitle and transcribe video', a link to 'Amara - Wikipedia, the free encyclopedia', and a link to 'Amara - Day Spa, Salon, Boutique | Utah County'.

Blogger Locale Logout

Create Post Here

Blogger Locale Wikipedia Global Search

Search Amara

About 2,860,000 results (0.28 seconds)

Ads by Google

Up To 50% Off At Amara - Hurry While Stocks Last!
www.amara.com/sale
Save Up To 50% On Selected Lines. The Amara Sale is On For A Limited Only!
Culper Cutlery Range The Amara Sale is On
Pay Studio Seating Modern Home 2016

Amara View CPAP Mask
www.cpa.com/Amara-View
Free 30 Day Trial + Free Shipping! Headgear Included! Order It Today!
Respirators CPAP Machines Respirators CPAP Masks
Shop CPAP Machine Deals Respirators Nasal Masks

Amara
www.fantastichor.com/Compare/Amara/Prices
Compare Amara and Request Product Know What To Expect Before You Book
★★★★★ rating for tripadvisor.com

Amara
www.amara.com/Amara-View
307 Amara Seaside Deck. Save Up To 50% in Seaside
★★★★★ rating for tripadvisor.com

Amara Home Page
Amara works to ensure that every child in foster care has the love and support of a committed family – as quickly as possible, and for as long as each child needs ...
www.amaraworld.org

Amara - Caption, translate, subtitle and transcribe video
Amara is there to be the world's largest subtitling community and is a complete solution for captions, subtitles, and translations. Amara makes captioning ...
amara.org

Amara Luxury Gifts & Designer Homeware
Luxury International online store specializing in luxury gifts, designer homeware, lighting & contemporary furniture. Plus wedding list service & award winning ...
uk.amara.com

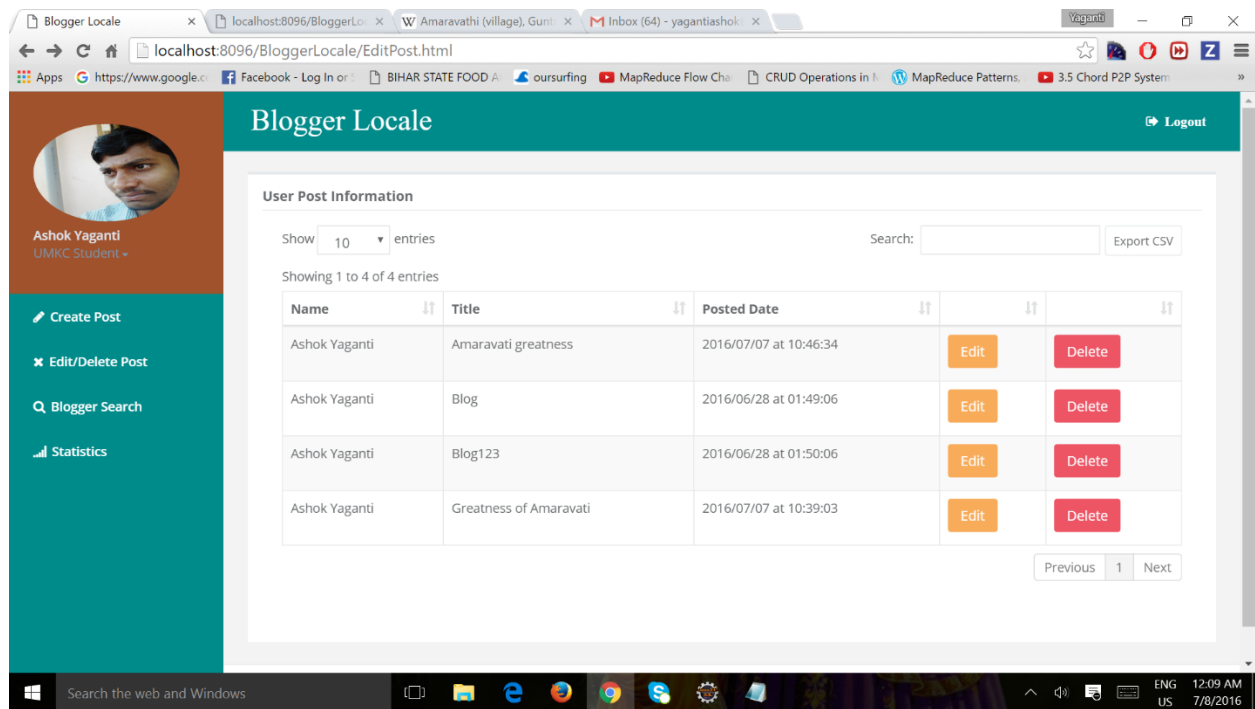
Amara - Wikipedia, the free encyclopedia
Amara may refer to: Contents [hide] 1 Places; 2 People; 3 Fiction; 4 Other; 5 See also: Place(s) Amara, Romania, a town in Ialomița County, south-eastern ...
en.wikipedia.org

AMARA | Day Spa, Salon, Boutique | Utah County
Amara Day Spa Day Spa Home | Day Spa | Medical | Salon | Nails | Boutique | Team | About | Careers | Appointments | Contact | Shop - Job Opportunities ...
www.amarayspa.com

Amara - Supermasks
The next day as Amara is walking down the street, she is confronted by Crowley who offers her some "bandy" in the form of a tied up family in the back of a van ...
www.supermasks.com

Amara - Raw organic sports drink for fitness enthusiasts

Edit or Delete Post: Edit or delete post already posted based on the search.



Blogger Locale [Logout](#)

User Post Information

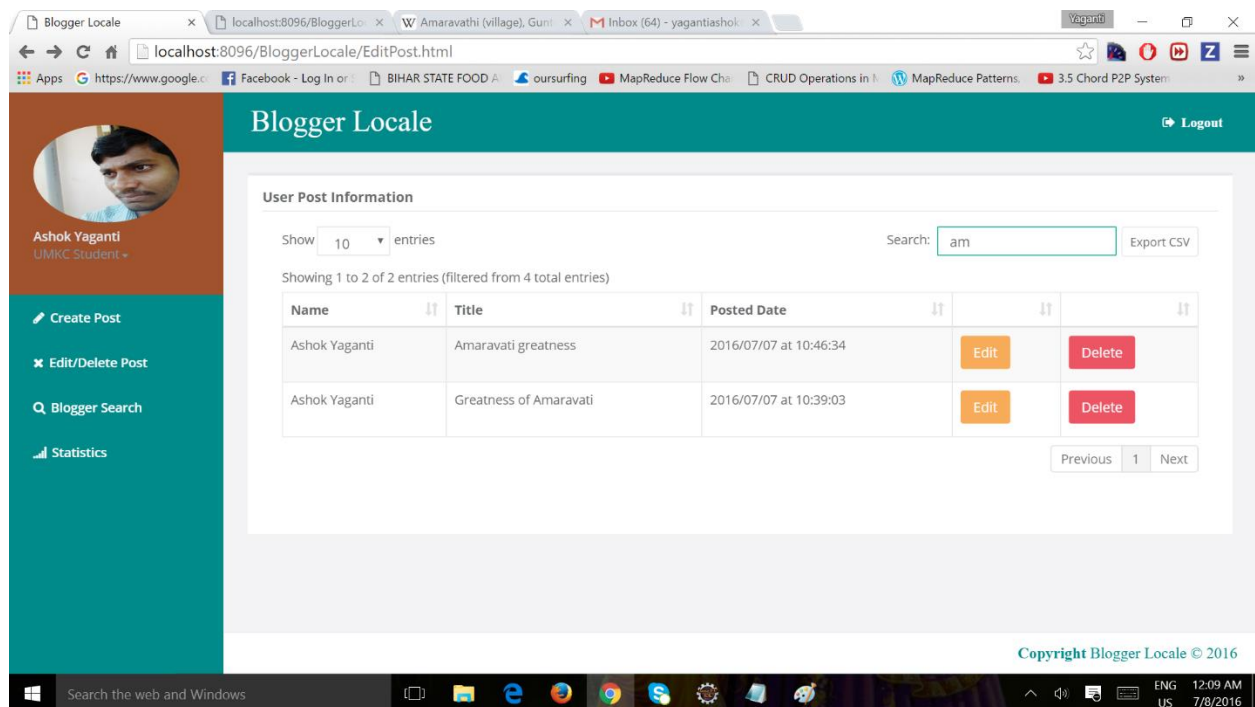
Show entries Search: Export CSV

Showing 1 to 4 of 4 entries

Name	Title	Posted Date		
Ashok Yaganti	Amaravati greatness	2016/07/07 at 10:46:34	Edit	Delete
Ashok Yaganti	Blog	2016/06/28 at 01:49:06	Edit	Delete
Ashok Yaganti	Blog123	2016/06/28 at 01:50:06	Edit	Delete
Ashok Yaganti	Greatness of Amaravati	2016/07/07 at 10:39:03	Edit	Delete

Previous 1 Next

Search Based on Title: User can search based on the title, tags for editing or deleting.



Blogger Locale [Logout](#)

User Post Information

Show entries Search: Export CSV

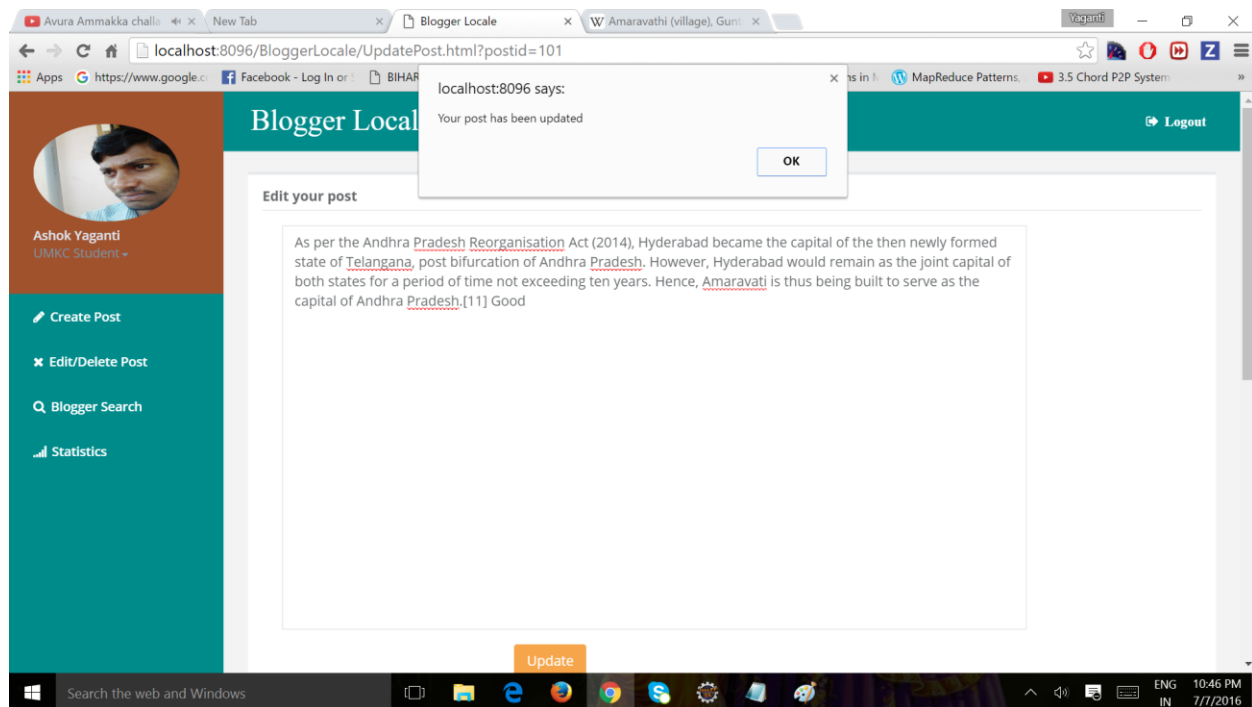
Showing 1 to 2 of 2 entries (filtered from 4 total entries)

Name	Title	Posted Date		
Ashok Yaganti	Amaravati greatness	2016/07/07 at 10:46:34	Edit	Delete
Ashok Yaganti	Greatness of Amaravati	2016/07/07 at 10:39:03	Edit	Delete

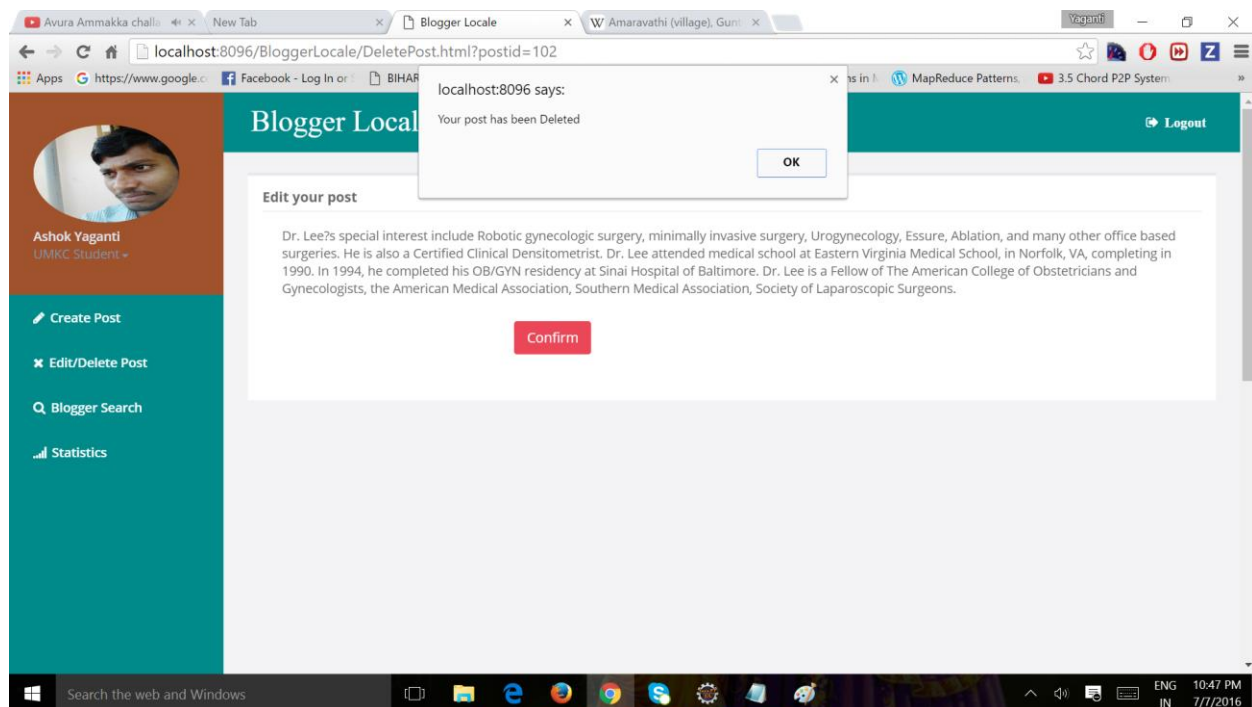
Previous 1 Next

Copyright Blogger Locale © 2016

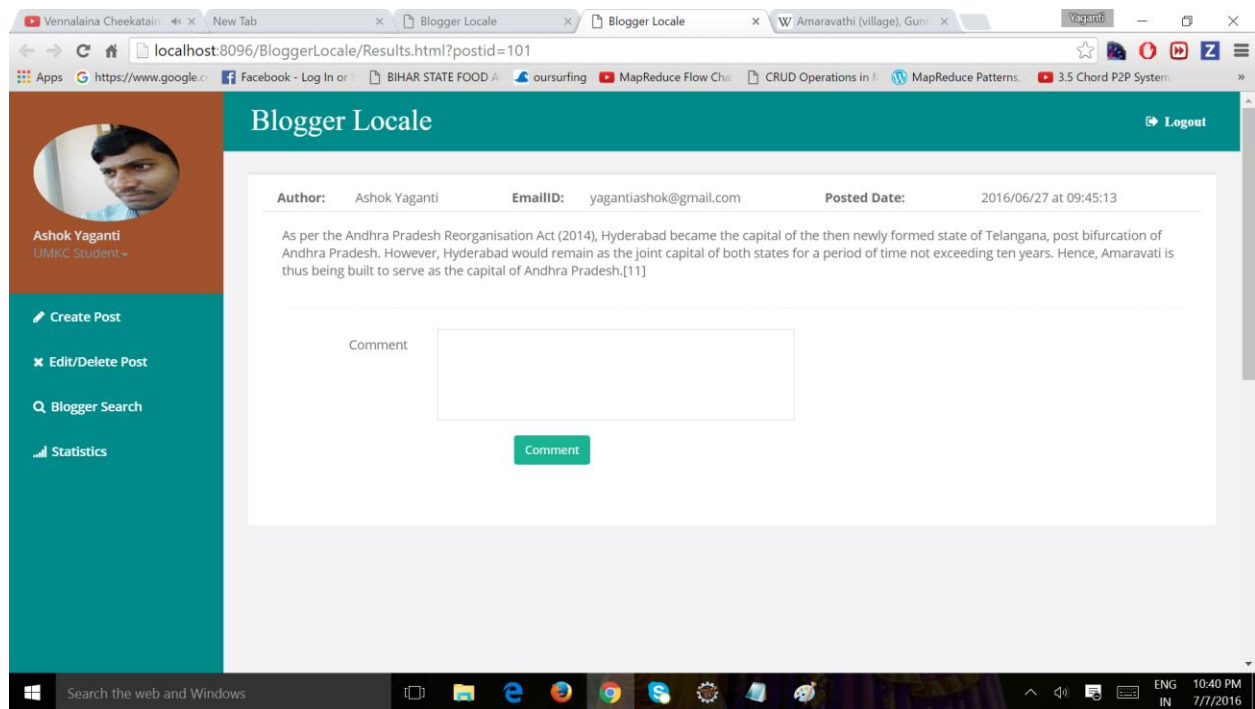
Update Post: Update post which is already posted.



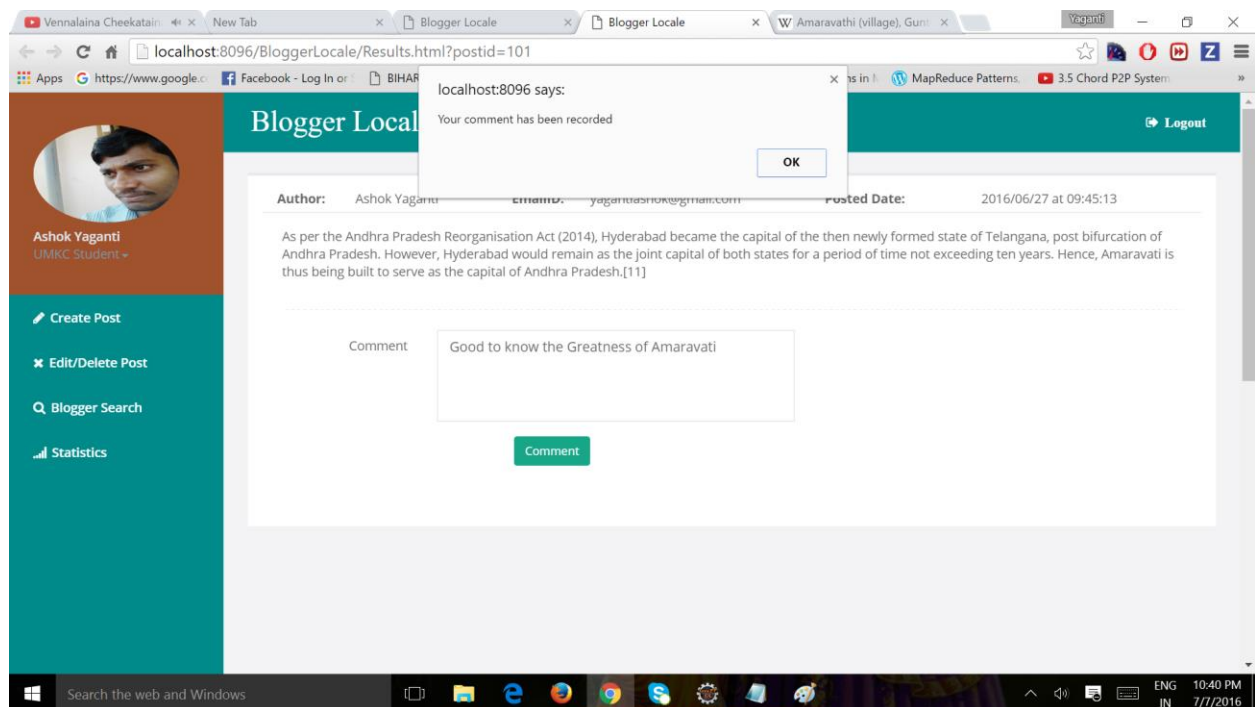
Delete Post: Delete post which is already posted.



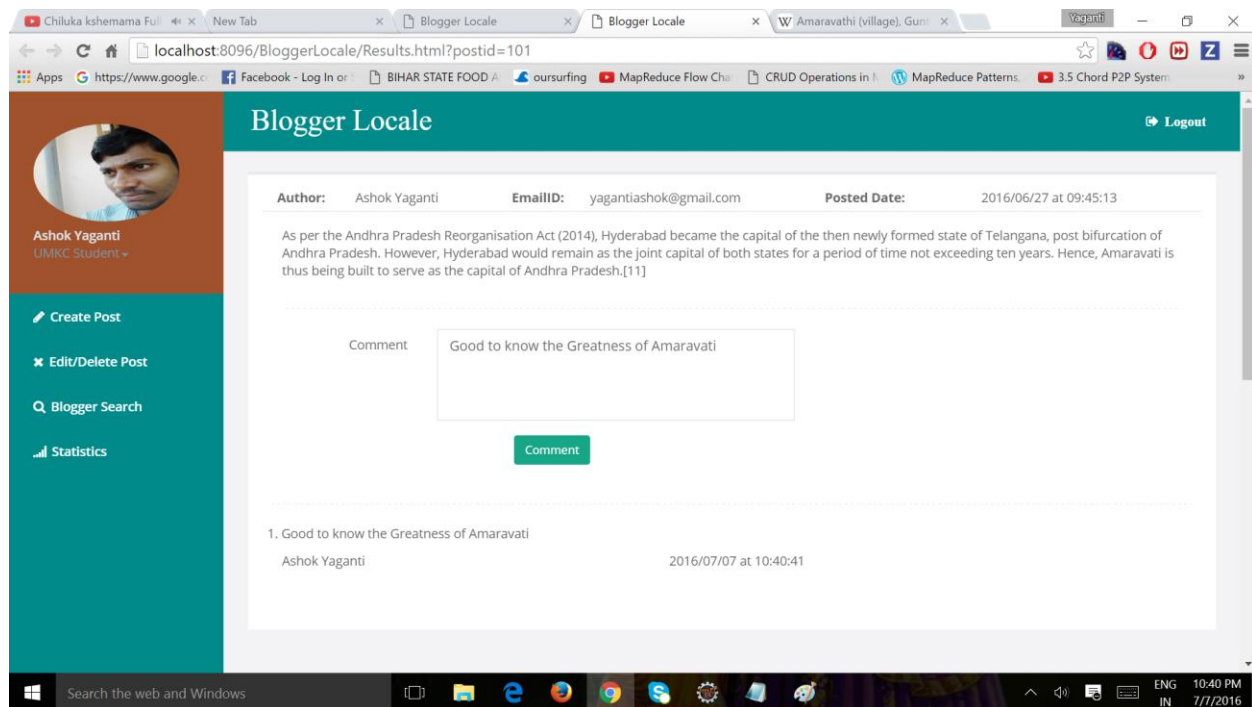
Comment Box: Comment box for comments on post.



Commenting on the post: Comment submission.



Comments on the post: You can view all the comments on the post.



Bibliography:

- <http://nlp.stanford.edu/software/lex-parser.shtml>
- <http://getbootstrap.com/css/>
- <http://spark.apache.org/examples.html>
- <http://datascience.stackexchange.com/questions/9785/predicting-a-word-using-word2vec-model>
- <https://api.jquery.com/Types/>
- http://www.w3schools.com/js/js_datatypes.asp
- <http://stackoverflow.com/questions/2722750/ajax-datatype>