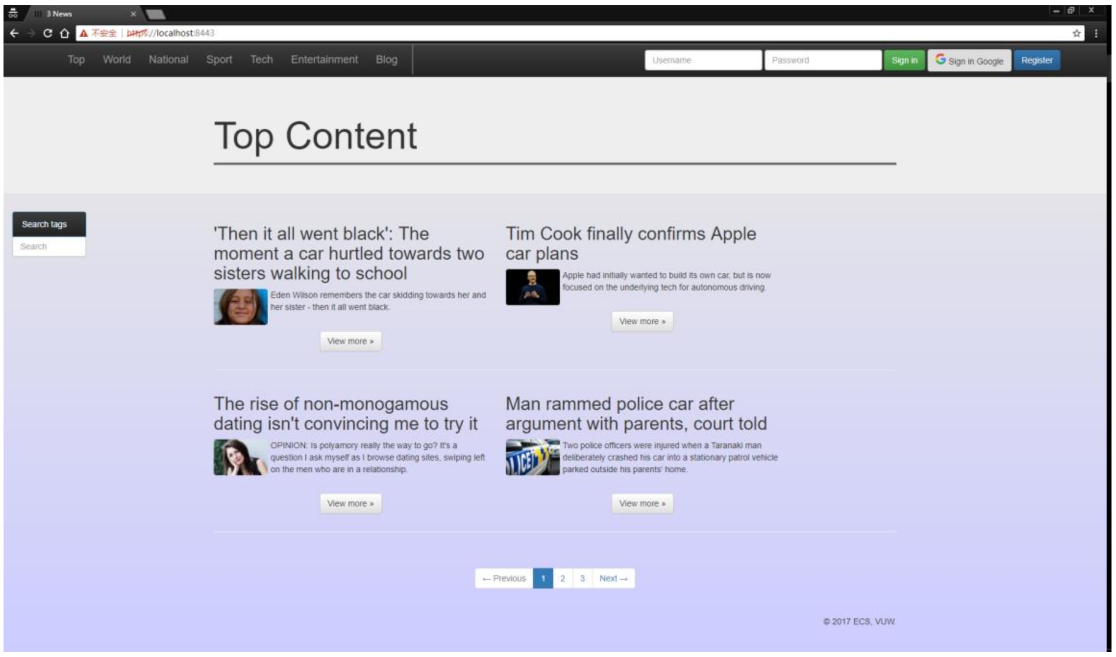
Client Side:

1. Main Page:



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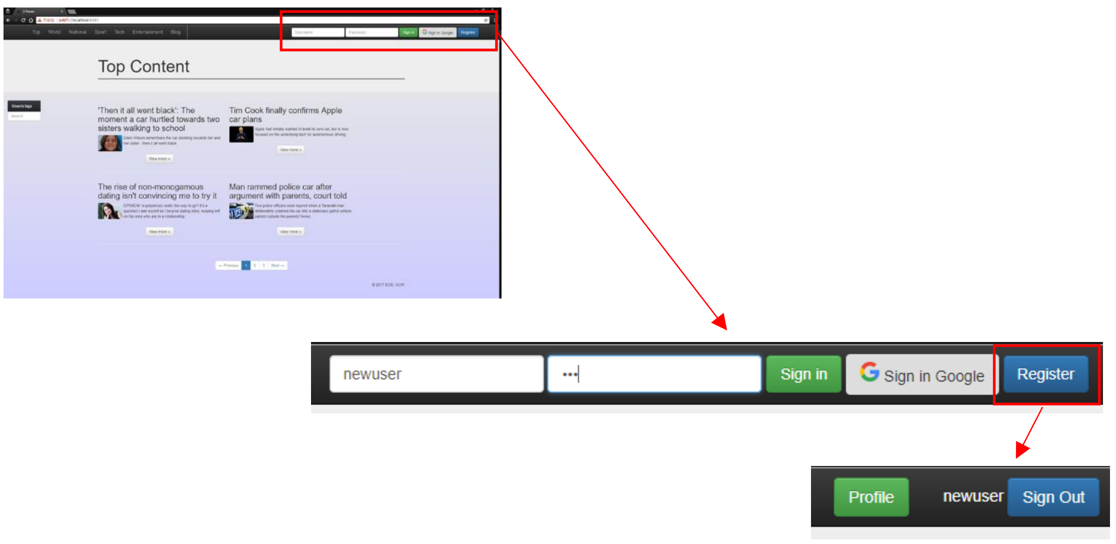
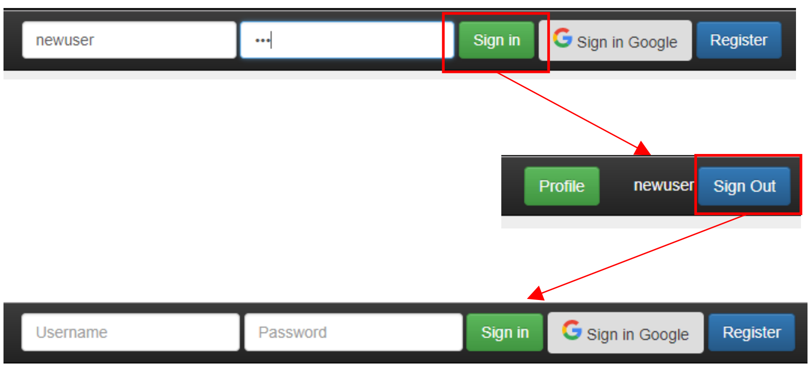
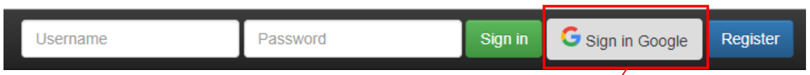
2. User Registration:

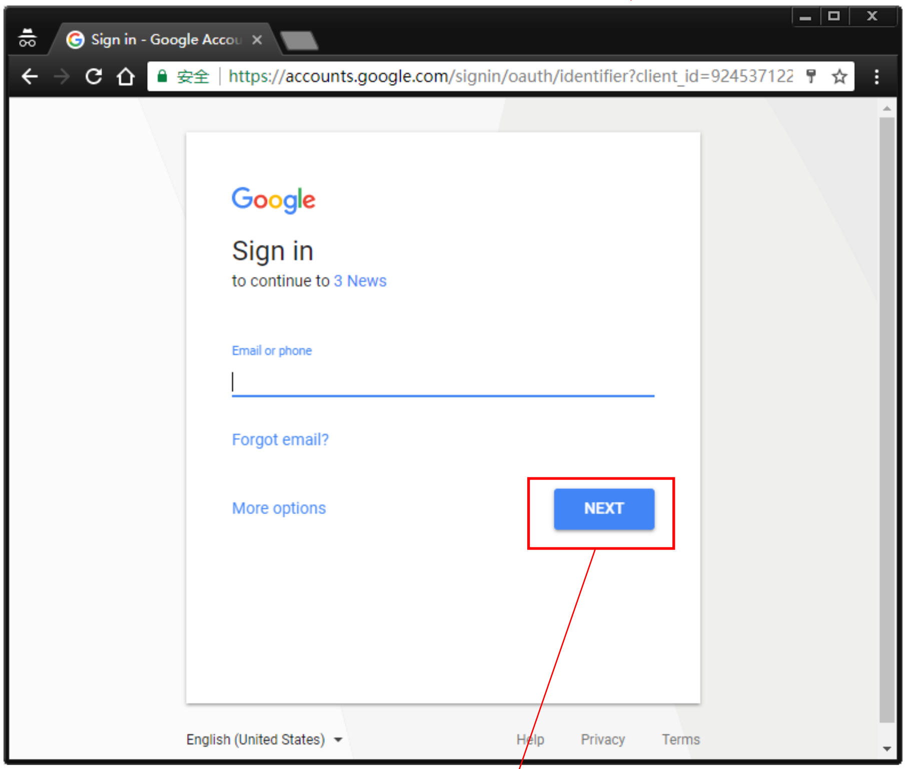


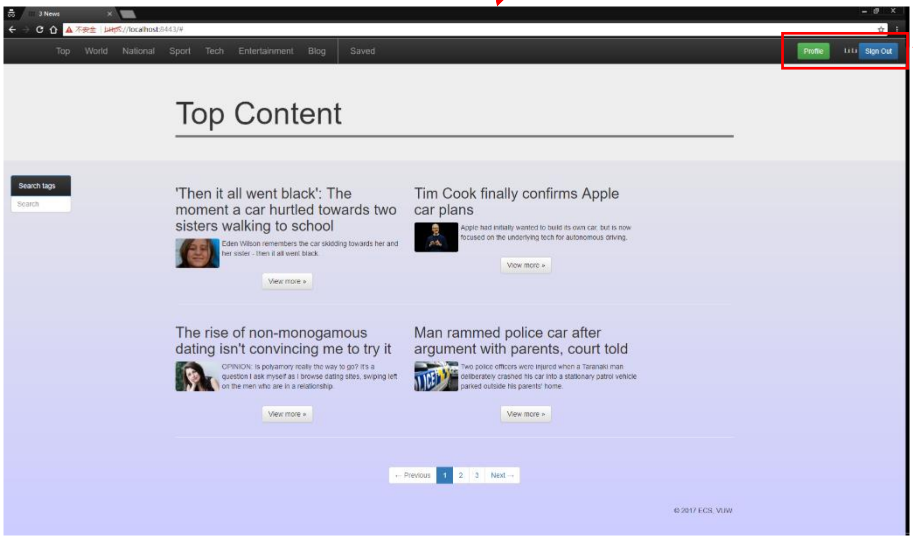
3. User Login / logout



4. User sign in with Google account







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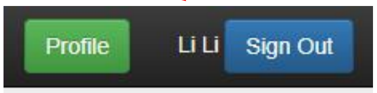
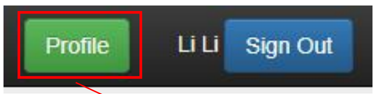
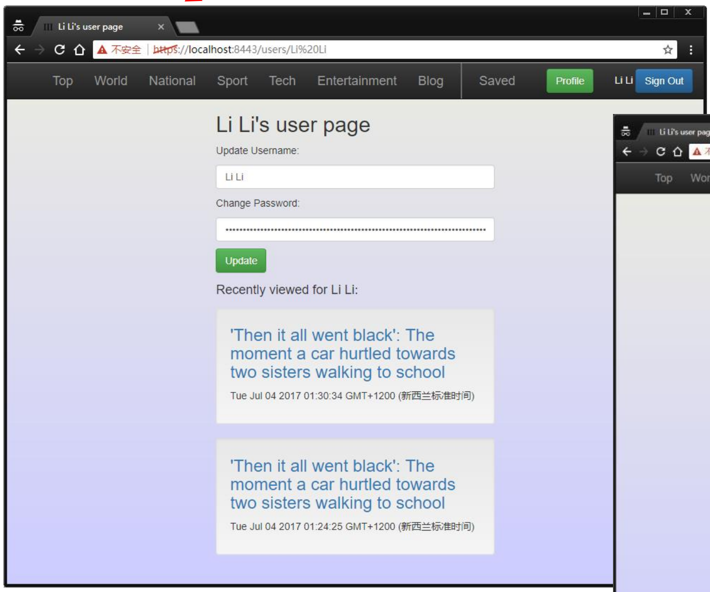


5. User Profile and Activity history





Li Li's user page

Update Username:

Li Li

Change Password:

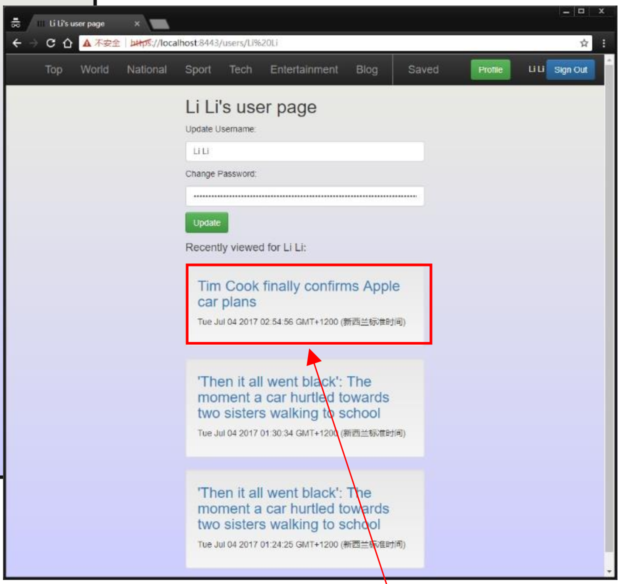
Recently viewed for Li Li:

'Then it all went black': The moment a car hurtled towards two sisters walking to school

Tue Jul 04 2017 01:30:34 GMT+1200 (新西兰标准时间)

'Then it all went black': The moment a car hurtled towards two sisters walking to school

Tue Jul 04 2017 01:24:25 GMT+1200 (新西兰标准时间)



Li Li's user page

Update Username:

Li Li

Change Password:

Recently viewed for Li Li:

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Tue Jul 04 2017 02:54:56 GMT+1200 (新西兰标准时间)

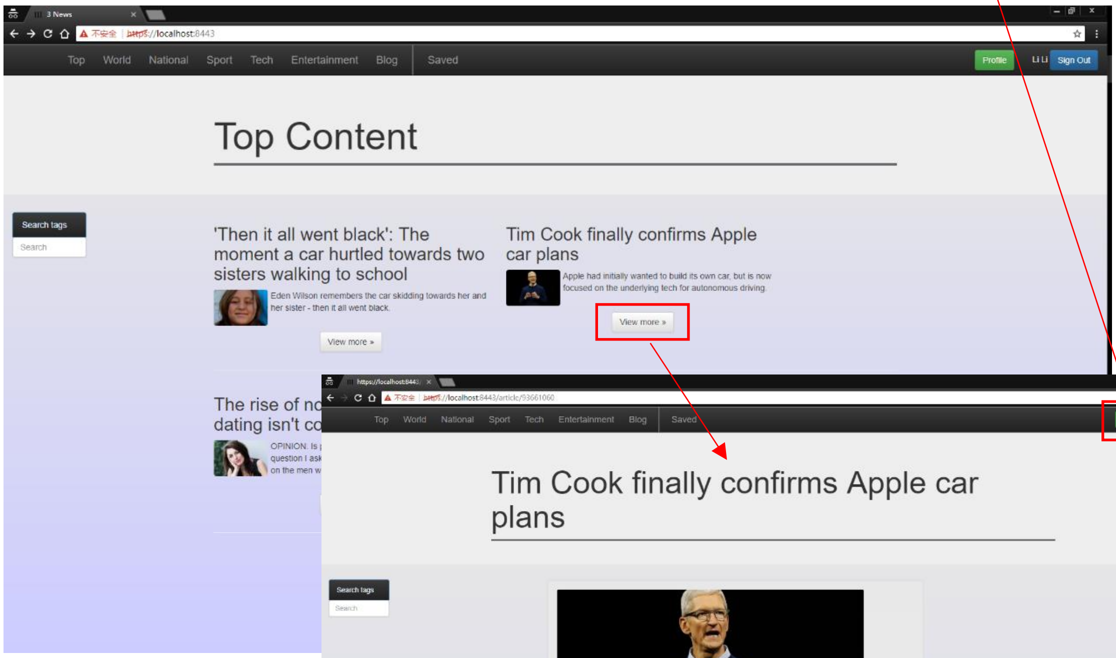
'Then it all went black': The moment a car hurtled towards two sisters walking to school

Tue Jul 04 2017 01:30:34 GMT+1200 (新西兰标准时间)

'Then it all went black': The moment a car hurtled towards two sisters walking to school

Tue Jul 04 2017 01:24:25 GMT+1200 (新西兰标准时间)

6. News Browsing



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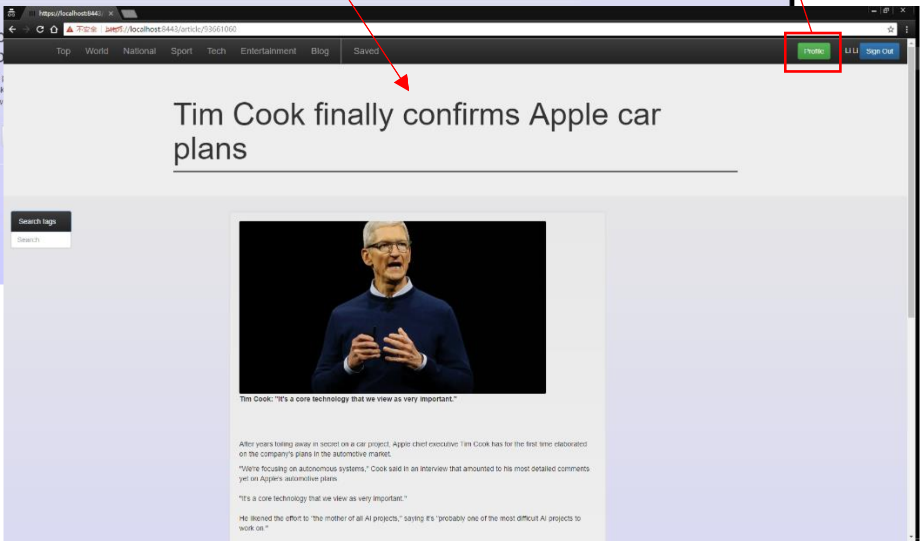


Tim Cook finally confirms Apple car plans

Tim Cook: "It's a core technology that we view as very important."

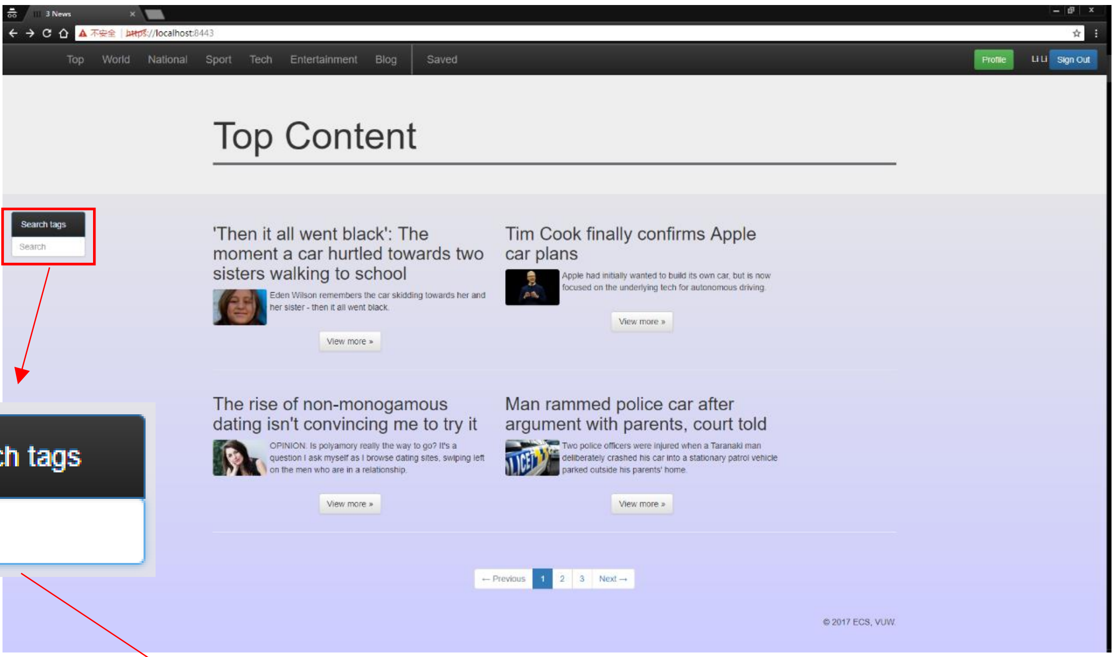
After years toiling away in secret on a car project, Apple chief executive Tim Cook has for the first time elaborated on the company's plans in the automotive market.

"We're focusing on autonomous systems," Cook said in an interview that amounted to his most detailed comments yet on Apple's automotive plans.

"It's a core technology that we view as very important."

He likened the effort to "the mother of all AI projects," saying it's "probably one of the most difficult AI projects to work on."

7. Search by tag



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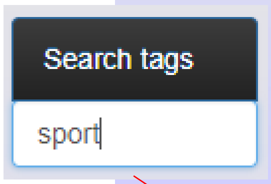

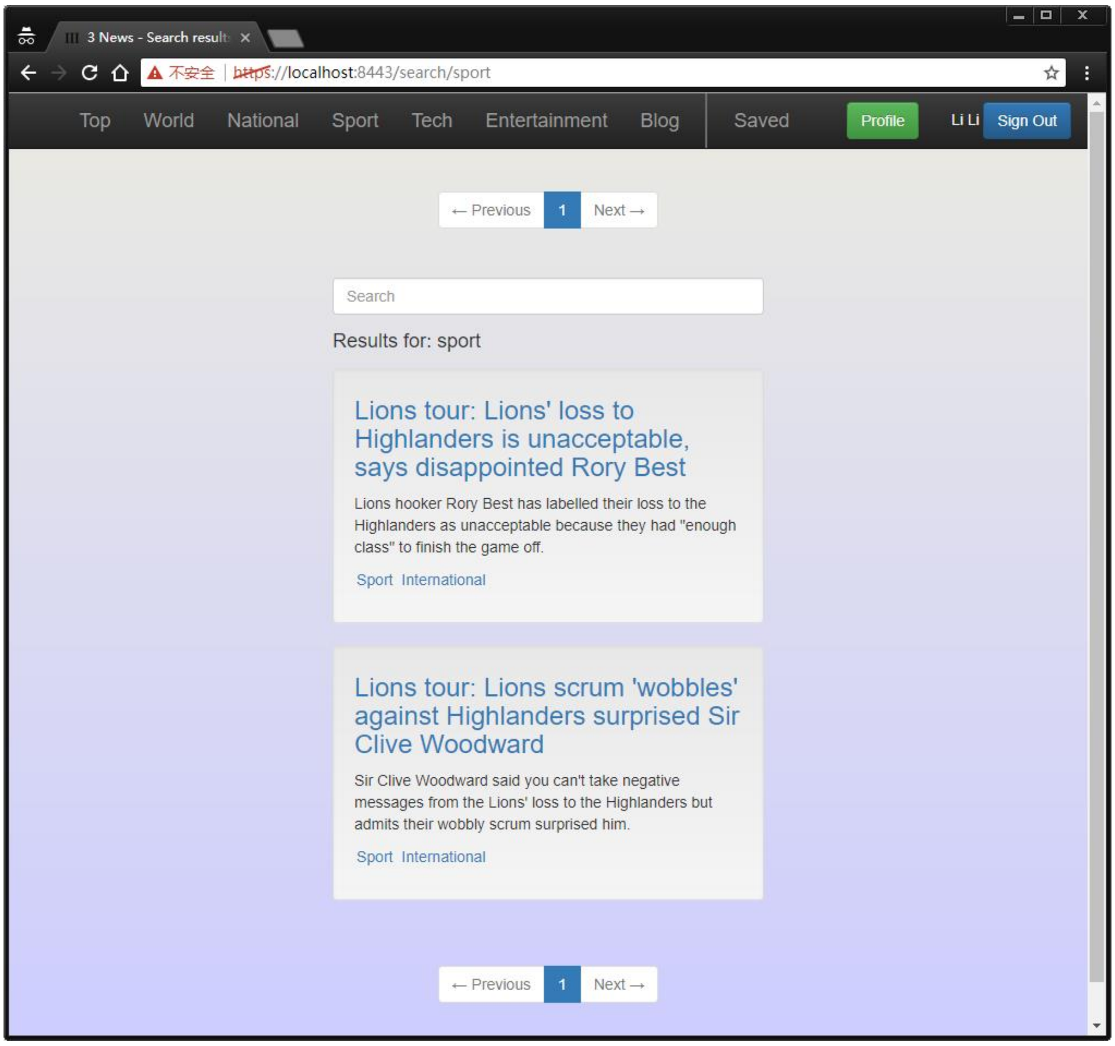

Results for: sport

Lions tour: Lions' loss to Highlanders is unacceptable, says disappointed Rory Best

Lions hooker Rory Best has labelled their loss to the Highlanders as unacceptable because they had "enough class" to finish the game off.

Sport International

Lions tour: Lions scrum 'wobbles' against Highlanders surprised Sir Clive Woodward

Sir Clive Woodward said you can't take negative messages from the Lions' loss to the Highlanders but admits their wobbly scrum surprised him.

Sport International

Server End:

1.
   ```
   curl -X GET http://nwen304-3-news.herokuapp.com/api/article/93675453
   ```

   GET /api/article/:articleID should return one article JSON with given ID

2.
   ```
   curl -H "Content-Type: application/json" -X GET http://nwen304-3-news.herokuapp.com/article/93675453
   ```

   GET /article/:articleID should return the article page (HTML) with given ID

3.
   ```
   curl -H "Content-Type: application/json" -X GET http://nwen304-3-news.herokuapp.com/article/tag/world
   ```

   GET /article/tag/:tag should return articles result page(HTML) with given tag, which is identical to GET /search/:tag

4.
   ```
   curl -H "Content-Type: application/json" -X PUT -d '{"tags": ["National","Car","Family"]}' http://nwen304-3-news.herokuapp.com/article/93675453
   ```

   PUT /article/:articleID should update the article with given new tags.

5.
   ```
   curl -X GET http://nwen304-3-news.herokuapp.com/api/users/Li%20Li
   ```

   GET /api/users/:username should return the user JSON with given username

6.
   ```
   curl -H "Content-Type: application/json" -X POST -d '{"username":"xyz","password":"xyz"}' http://nwen304-3-news.herokuapp.com/api/users/createUser
   ```

   POST /api/users/createUser should create a new user saving in MongoDB

7.
   ```
   curl -H "Content-Type: application/json" -X PUT -d '{"__v":0,"type":"normal","password":"abc","name":"xyz","_id":"595a7ce205954a001132f67c","history":[],"archive":false}' http://nwen304-3-news.herokuapp.com/api/users/xyz
   ```

   PUT /api/users/:username should update the user with given username

8.
   ```
   curl -H "Content-Type: application/json" -X DELETE http://nwen304-3-news.herokuapp.com/api/users/xyz
   ```

   DELETE /api/user/:username should delete the user with given username and also remove all tokens saved for that user.

Other REST APIs are not shown due to similarity to above CURLs.

Test cases for caching policy.

'-k --insecure' is necessary as we are using a self-signed certificate

Accessing static files:

```
curl -I -k --insecure https://localhost/stylesheets/customcss.css
curl -I -k --insecure https://localhost/views/js/client.js
```

```
Cache-Control: public, max-age=31536000
```

Accessing static pages:

```
curl -I -k --insecure https://localhost/article/93675453
```

```
Cache-Control: public, max-age=3600, s-maxage=600, proxy-revalidate
```

Accessing dynamic pages:

```
curl -I -k --insecure https://localhost/
curl -I -k --insecure https://localhost/search/National
```

```
Cache-Control: public, max-age=60, s-maxage=10, proxy-revalidate
```

Responses to non-GET requests

```
curl -I -k --insecure https://localhost/auth/login -H "Content-Type: application/json" -X POST
curl -I -k --insecure https://localhost/api/users/TEST -X DELETE
```

```
Cache-Control: no-cache, no-store, must-revalidate
```