CmpE280: Web UI Design
Submitted To: Prof. Chandra Vuppalapati

SAN JOSÉ STATE
UNIVERSITY

Project Report for *Yelp for Help*

Submitted By: Team Unicorns

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TEAM CONTRIBUTION

Team Member	Contribution
Sindhura Vallabhaneni	Research and data collection, Web UI(Home, Share Your Experience, Statistics), Unit Testing, Automation Testing, SEO, Profiling, Localization, Project report
Sai Sankirthi Achutuni	Research and data collection ,Web UI (Home, CrimeMap, AboutUs, Statistics, Safety Gauge), Automation testing, Pagination, Project report, Localization
Moksha Bhargav Vanam	Research and data collection ,Backend development, Testing, Database, SQL queries, Localization
Rakesh Balusa	Research and data collection ,Backend development, Testing, Database, SQL queries, Profiling scripts, Charts, Hosting, JavaScripting, Localization

1. Project Description

In the recent times, increasing crime rate is the major source of insecurity and fear. Therefore, it is very important to know how safe the intended route of travel is and how secure the final destination is. How about having a website, which gives you real time updates about the crime information?

We have come up with an idea of “Yelp for Help” which provides the updates on recent crime statistics, analyzes the safety of a specific location, provides the safety information based on a specific crime category and allows user to rate a locality based on its safety.

Our proposed solution “Yelp for help” takes the users current location or address and displays the most recent crimes in the specified location. It allows the user to select the type of crime for which they wish to know the details. Based on the selected crime type, our website displays a gauge indicating the safety levels and presents the crime incidents recorded within a certain radius of the specified location. The website also allows the user to rate a specific locality for its safety and post a review by sharing his/her experience.

The major functionalities of Yelp for Help are:

- Home Page provides all the features provided by Yelp for Help for a end user such as Crime Map, Statistics, Share your experience and About Us.
- Crime Map takes the user location and displays the recent crimes happened in the specified location. It also provides the crime statistics on a graph. It takes the user’s current location or the address enetered by the user as input parameters.
- A list of crime categories are displayed to the user. When a user selects the category and location, the crimes of the category plotted on the map are displayed. The user can select the location for which he wishes to know the crime statistics.
- The user can report an incident and share his experience in a specified location. He can also rate the location. The user can also share his experience on the social media website.
- To know more about us and the scope of our website the user can click on About Us tab.
- The application is integrated with popular social media websites like Facebook, Twitter and Google+. The user can post his experience on the social media website.
- API services such as google maps are used to mark the crime information and high charts are used display the crime statistics.

2. Requirements

2.1 Functional Requirements

- Providing an interface to Ambulance driver to get the information about the accident.
- Providing an interface to view the crime information in a location specified by the user.
- Displaying gauges indicating safety levels in a specified location.
- For a selected crime type, presenting the reported crime incidents with a certain radius of the specified location
- Rating a location in terms of safety and sharing user experiences by posting a review.
- Alerting public by posting the crime incident on popular social media websites like Facebook and twitter.

2.2 Non-Functional Requirements

- Accessed by multiple users simultaneously
- Rendering the google map with no latency
- Simple and user friendly

2.3 Additional Functional Requirements

- Alerting the cops and emergency services in case of a crime scene.

3. Web UI Requirement principles

3.1 Job Shadowing and Contextual Interviews

These are the two techniques which helped us in finding the people who actually need this application and why they would use it. We also analyzed the need for building this application and how this would help the targeted users.

In order to know what problems various users are facing we did the contextual interviews. These interviews helped in knowing and understanding the problems faced by them and thus design the application accordingly.

We took the below contextual interviews:

- How does a user ensure his/her safety?
- Why does the user need yelp for help?
- How would this application help the user in knowing their neighborhood better?
- Why would a user want to know the crime statistics in a specified location?
- How will previous crime knowledge help the user?
- What would the user want to know to determine the safety of an area?
- How will the user know the details about a specific crime in an area?

- Would a user like to share his experience to help others?
- How would the user rate the safety of an area?
- What are the parameters to determine the safety of an area?
- Would the users like to alert others by sharing their experience on social media?
- How would it help the police to be better aware of the crimes?

3.2 Personas

Personas are the fictional people representing specific groups of target audience. Interacting with personas help the developers in understanding the targeted audience and their needs thereby making it easy for them to design and implement the required features.

The user personas that are taken into consideration are:

- End User
- Police

3.2.1 End User:

If a user wishes to know about the crimes happening in their locality and analyze their safety, Yelp for help displays the recent crimes happening in a location and allows them to share their experience with others.

3.2.2 Police:

If police wish to know about the crimes, they can get the crime updates in a location specified and take required safety measures. The police can get constant updates about the crimes happening around and provide required assistance at the earliest.

4. Web UI Design Principles

4.1 Story Boards

Storyboarding is a technique originally developed to plan animations for movies. They break animations down into their important frames; they turn a moving picture into a comic book. In user interface design, we use storyboards for a similar purpose. They break down the user's path into a series of snapshots.

Two friends planning to meet. But they are worried about safety. They started looking for an app that provides the safety details based on locality.	The user opens Yelp for Help. This website provides the crime information of the location specified	The user can select a type of crime and view the safety of a specified location	The user can view the crime information plotted on the map	The user can share his experience and rate the locality in terms of safety

Figure 4.1 Storyboard

4.2 Wireframes

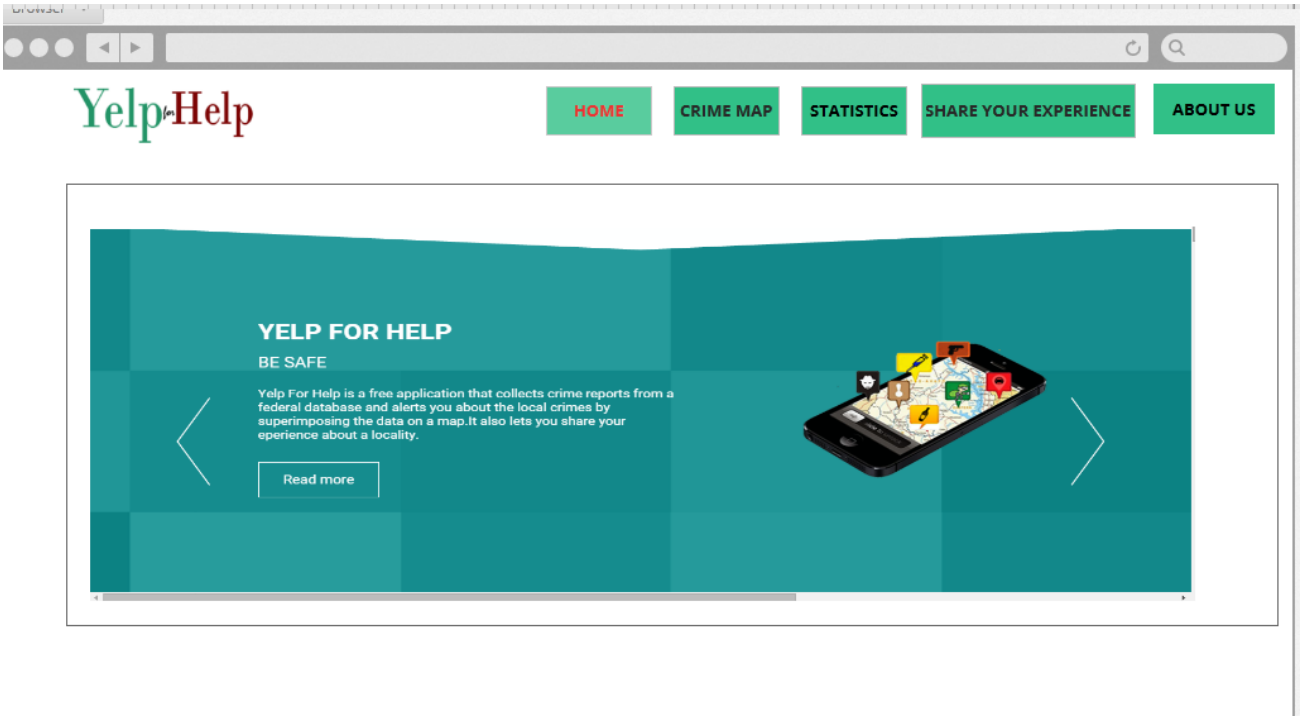


Figure 4.2.1 Wireframe for Home page

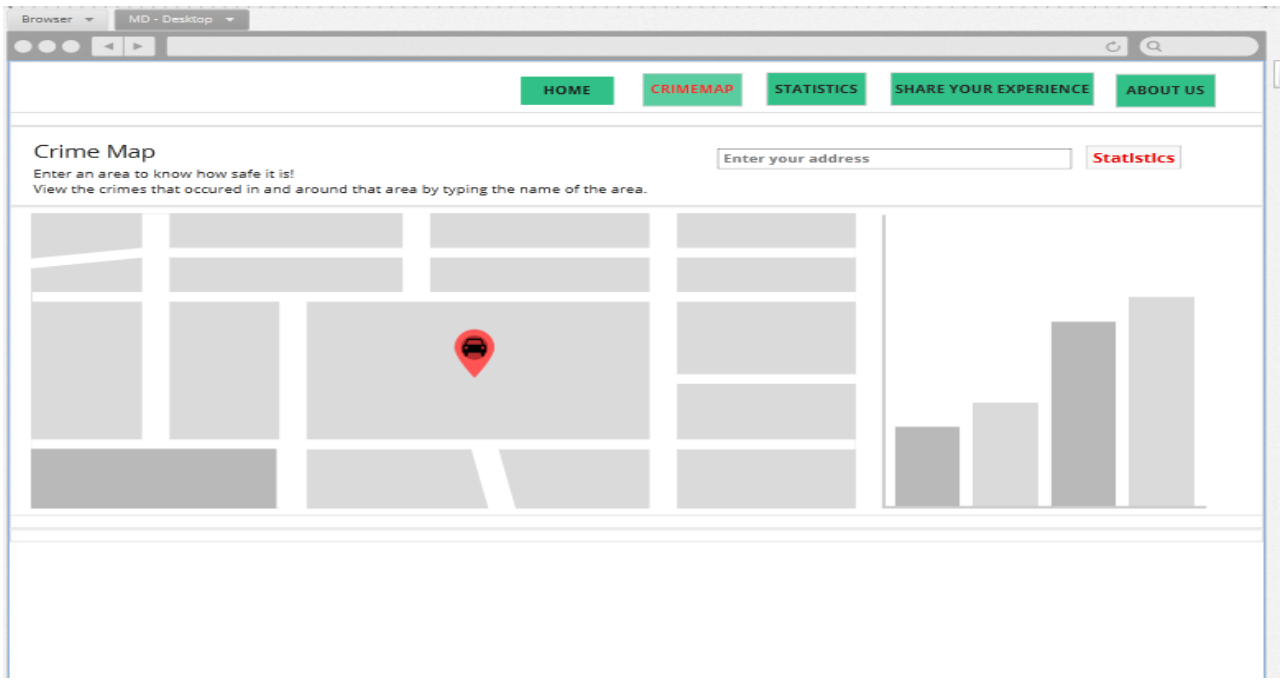


Figure 4.2.2 Wireframe for Crime Map

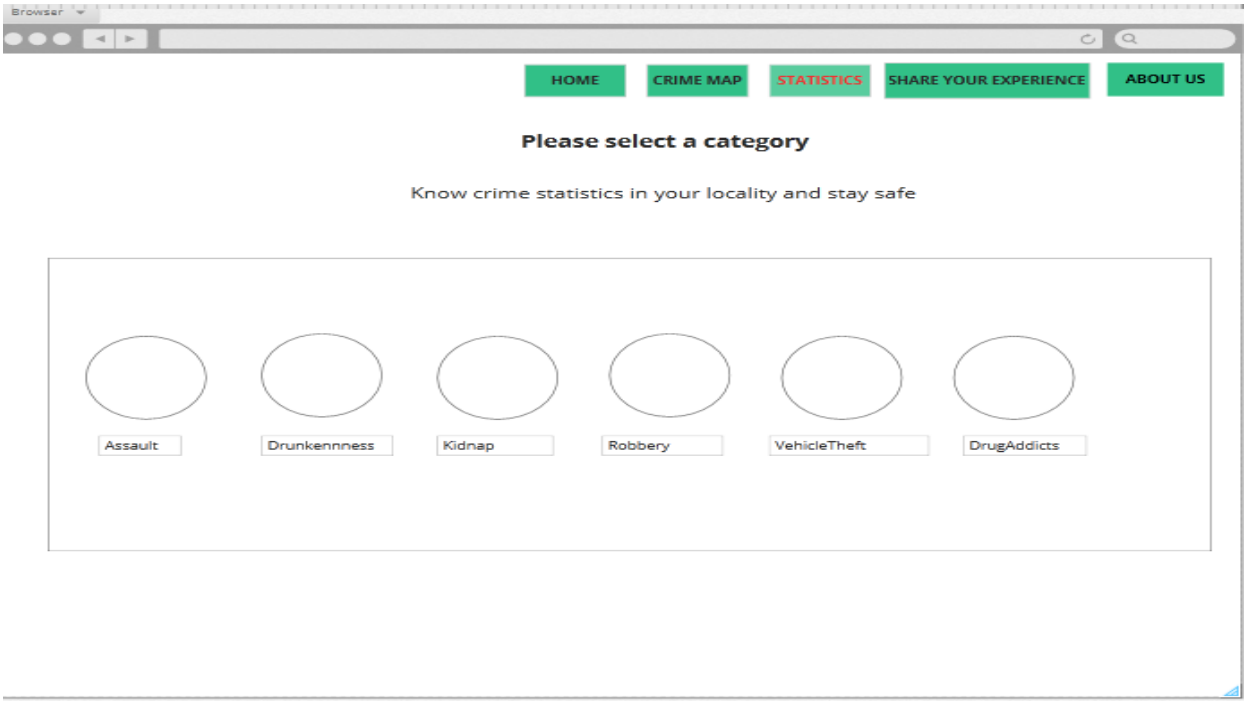


Figure 4.2.3 Wireframe for Statistics

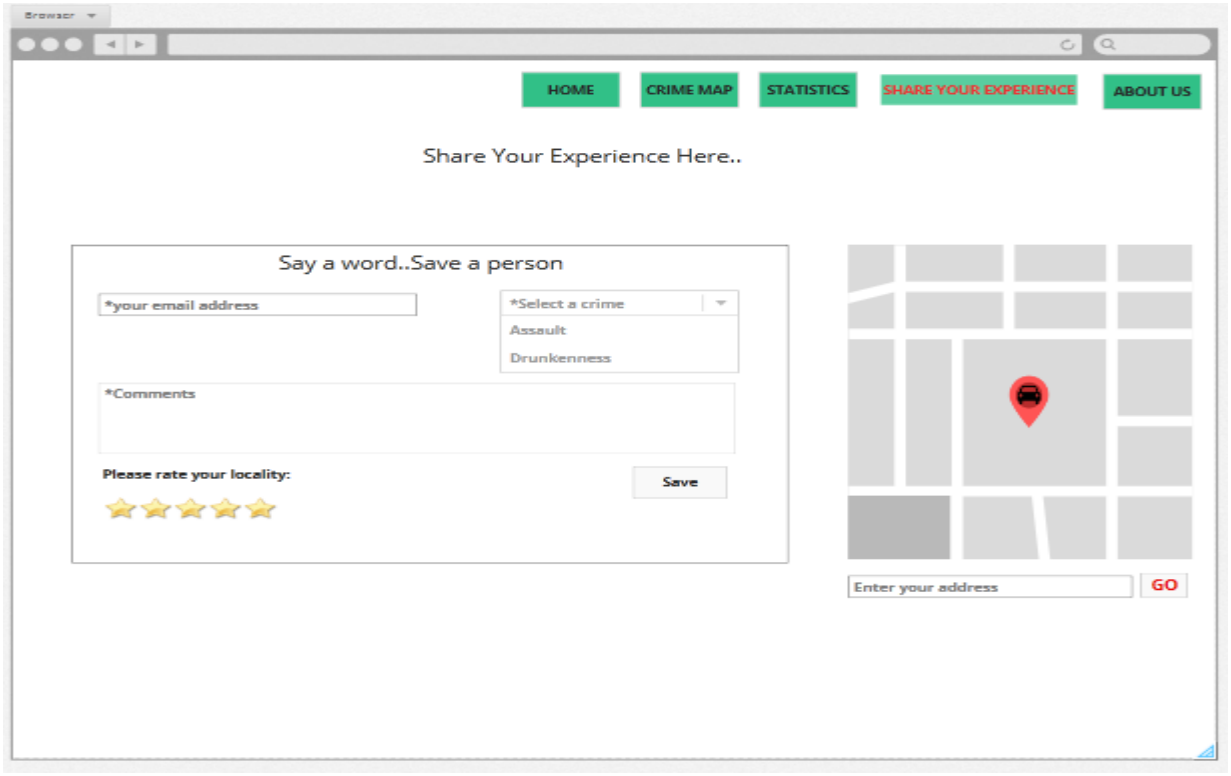


Figure 4.2.4 Wireframe for share your experience tab

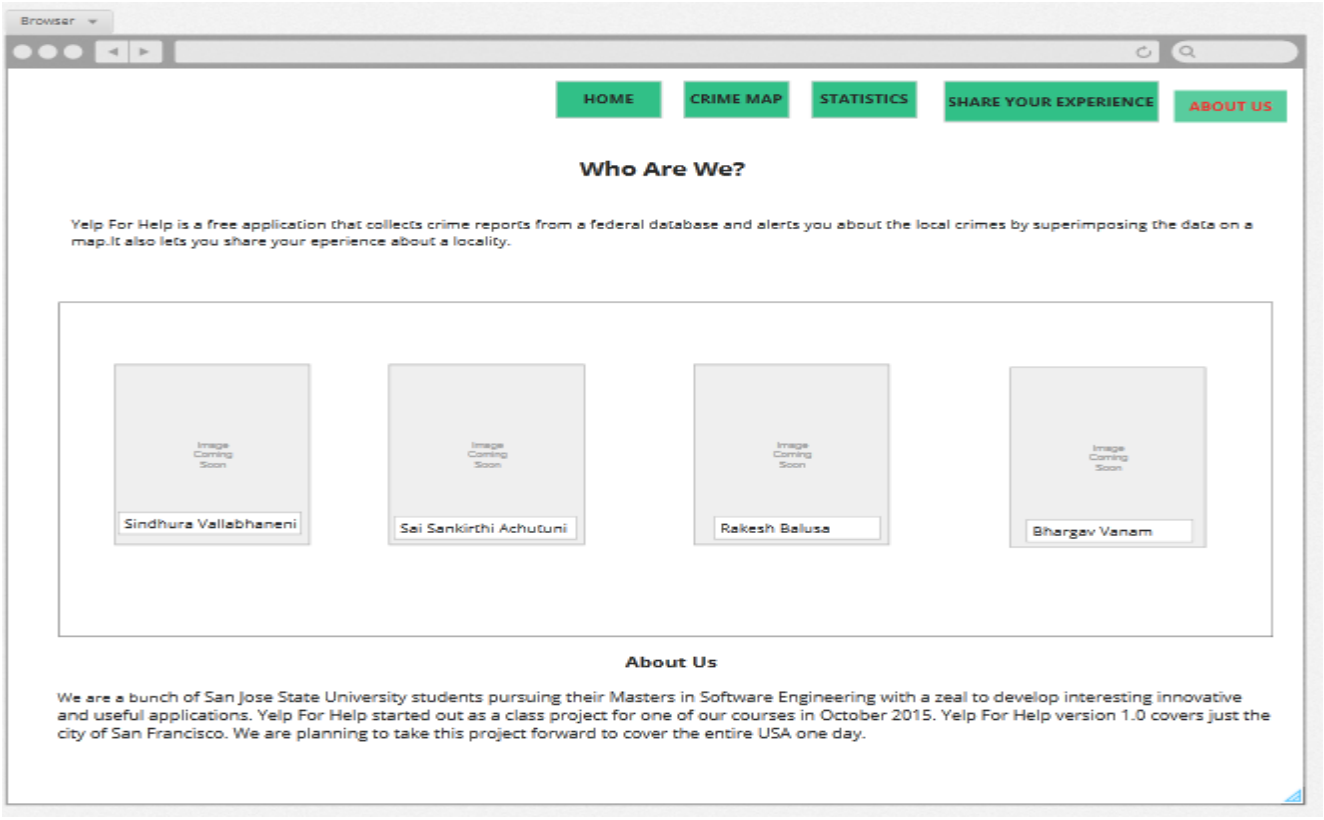


Figure 4.2.5 Wireframe for About us tab

5. High Level architecture design

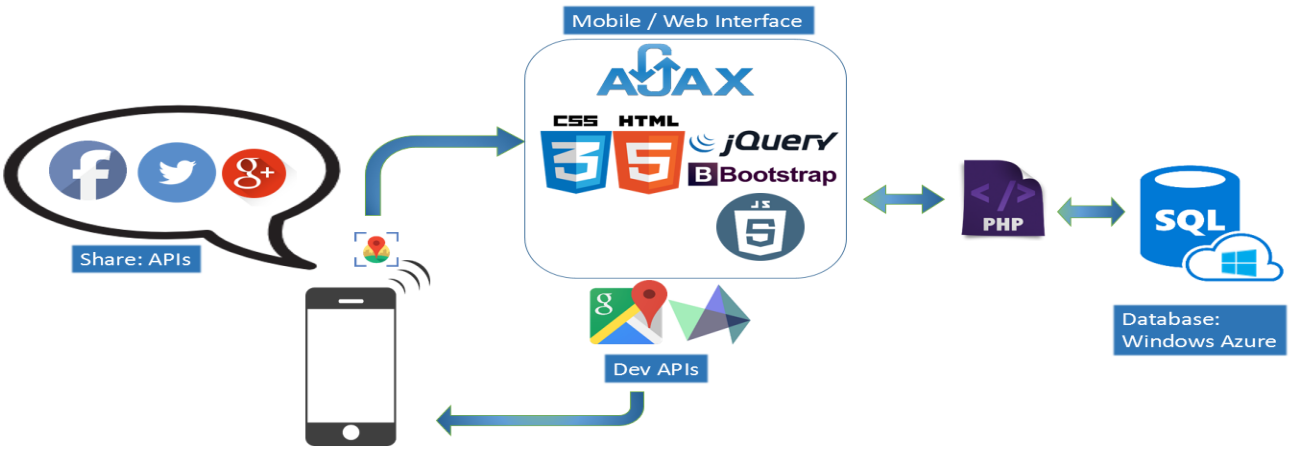


Figure 5. High level design Yelp for Help

5.1 Client Server Architecture

We have used a 3 tier architecture – Model View Controller (MVC).The web interface (view) accesses the controllers in which the actual data logic is written. The controllers interact with the SQL Server 2012 database which has the crime data. The reason for choosing this approach: easy access to data, high security and maintainability.

6. Component level design

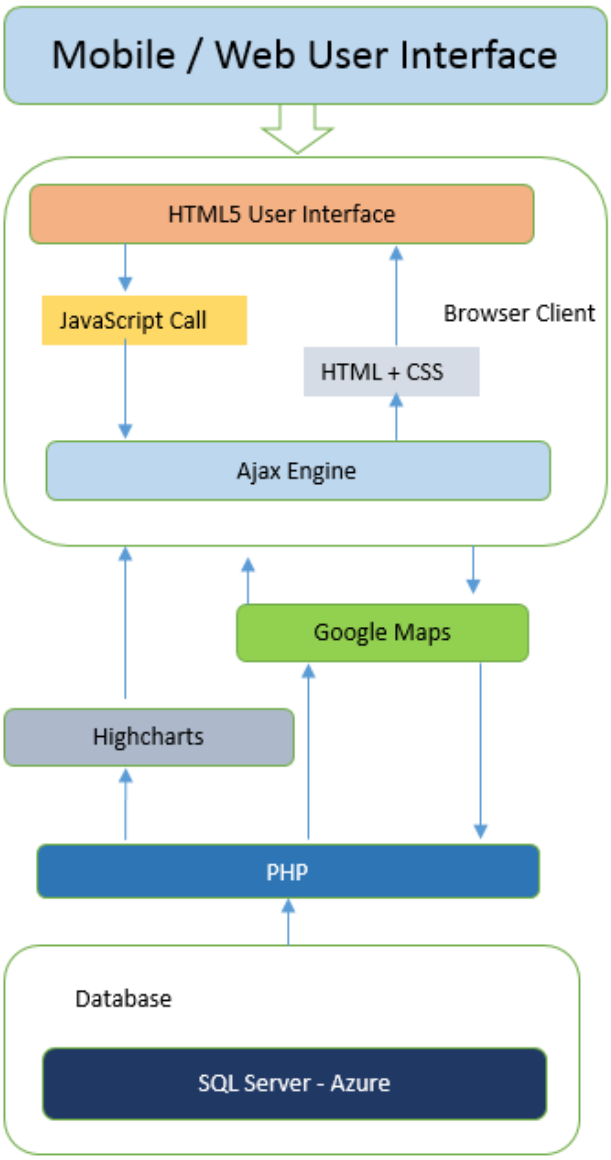


Figure 6: Component design for Yelp for Help

7. Sequence or workflow diagram

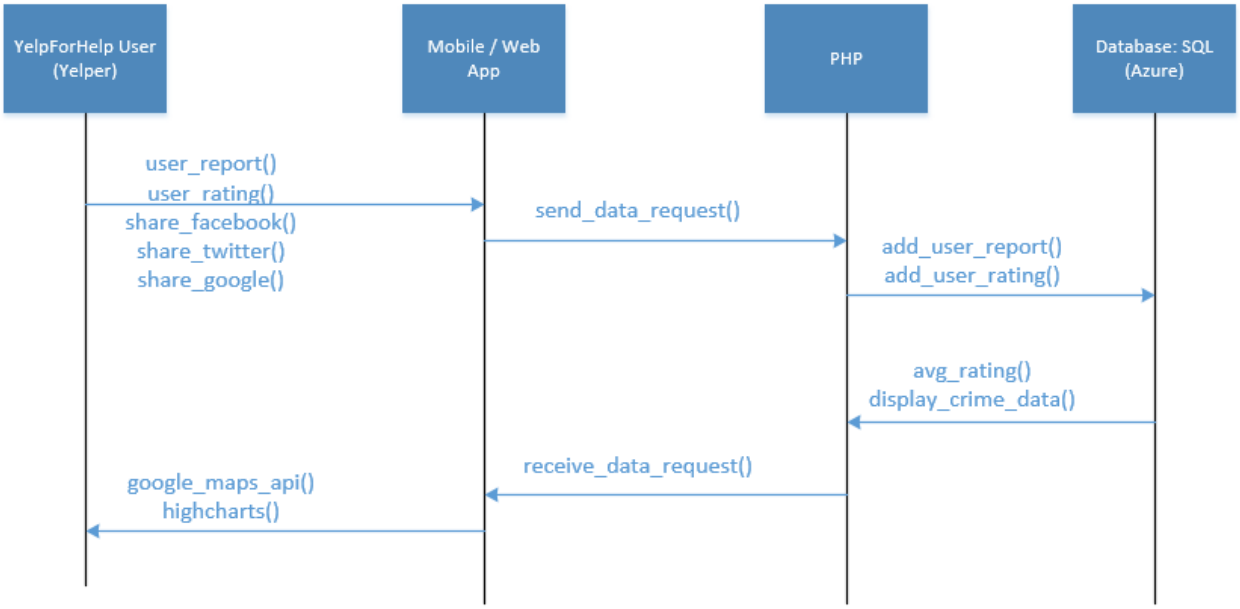


Figure 7: Sequence diagram for Yelp for Help

8. HTML Features used

We have used HTML5 to create the content structure of our web application. Using HTML5 made our task of formatting the elements, creating and accessing the div tags and sections easy. We have also used the input types, form validation support, media tags and many more semantic HTML elements in our project.

Below is the list of few HTML elements which made our application development easy:

- head
- img
- input
- script
- style
- textarea
- link
- title
- legend
- svg
- aside
- section
- fieldset

Bootstrap is the most popular HTML, CSS, and JS framework used for developing responsive web applications. With all the predefined templates it makes the front-end development faster and easier.

Below is the list of few bootstrap elements which made our application development easy:

- Carousel
- Buttons
- Calendar
- Side panels

9. Interfaces – RESTFul & Server Side Design

9.1 RESTFul

We are using httprequests in PHP to call the database with "GET" and "POST" methods to perform multiple tasks like retrieving data from the database or inserting data into the database.

9.2 Server Side Design

9.2.1 PHP

PHP is a server scripting language, and a powerful tool for making dynamic and interactive Web pages. We have used PHP to interact with the SQL Server 2012 database and send the responses to the user interface. We use PHP scripts to fetch the list of crimes based on the location specified, user's current location and type of crime. We also save the user experience to the database using PHP scripts.

9.2.2 WAMP Server

WAMP Server is a Windows web development environment. It allows you to create web applications with Apache2, PHP and a SQL Server 2012 database. We chose WAMP server because we don't need to install any other application to manage our files.

9.2.3 Database

We have used SQL Server 2012 as our backend database. We store and retrieve the crime data and the user experience data from the database. We use PHP scripts to fetch the list of crimes based on the specified location and crime type. The user experience and the location is saved to the database.

10. Client Side Design and Technologies Used.

10.1 HTML5

We have used HTML5 to create the content structure of our web application. Using HTML5 made our task of formatting the elements, creating and accessing the div tags and sections easy. We have also used the input types, form validation support, media tags and many more semantic HTML elements in our project.

10.2 CSS

Cascading Style Sheets to improve the look and feel of our application. We have used CSS to format the content, arrange the layouts, animate elements and create gradients to adjust the appearance of the content. We have used both internal and external CSS in our project.

External CSS: All the elements are available in an external file which can be imported by adding a reference inside the <link> element.

Internal CSS: The styling elements are defined within the <style> element, inside the head section of an HTML page

10.3 Bootstrap3

Bootstrap is the most popular HTML, CSS, and JS framework used for developing responsive web applications. With all the predefined templates it makes the front-end development faster and easier.

To avoid the dependency on internet initially we have downloaded and saved the complete bootstrap into local machine. Later we Included Bootstrap from a CDN by providing a link in the head section.

10.4 Java Script

JavaScript is the programming language of HTML and the Web. It runs on the client side of the web, which can be used to design how the web pages behave when an event is triggered. We have used JavaScript to dynamically validate the inputs and facilitate asynchronous communication with the server.

10.5 Ajax

Asynchronous JavaScript and XML is a set of web development techniques which allows developers to update a page without actually reloading the entire page.

10.6 Jquery

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. We have used Jquery to toggle divs.

10.7 Google Maps

Google maps are available for various devices and they provide up-to-date information about millions of locations. We have integrated google maps API with our website to get the users current location or to auto complete the address entered by the user. We have also plotted markers to depict various crime incidents happening in the specified area.

10.8 High Charts

These are the interactive charts used to view data in the form of graphs and charts on a web page. We have imported the bar charts and embedded them to our website. Using bar charts we are able to compare the intensities of various crimes happening in and around the specified location. These high charts don't require any plug in and it just needs the java script notation structure which consists of keys and values with colons, grouped by brackets and separated by commas.

10.9 D3.js

D3.js is a JavaScript library for manipulating documents based on data. D3 helps you bring data to life using HTML, SVG, and CSS. D3's emphasis on web standards gives you the full capabilities of modern browsers without tying yourself to a proprietary framework, combining powerful visualization components and a data-driven approach to DOM manipulation.

11. Testing

In order to ensure the efficient operation of the functionality, testing is necessary. The general approach we followed for testing includes the following scenarios:

1) The server on which the application and database is hosted must be up and running with no down time.
2) The application must be opened successfully on clicking the web URL.
3) The application must have browser compatibility.
4) The device must be connected to Wi-Fi.
5) The user must be able to access the application at all times.
6) The application must not consume excessive memory.
7) The application must have minimal response time.

11.1 Test Plan and Scope

The major phases in our testing process include Requirement analysis, Test Planning, Test Design and execution and Bug Reporting. We have performed the above mentioned manual and automation testing on our application by dedicating a good amount of time.

Initially we have walked through all the requirements and analyzed them in order to make sure we have a good test coverage by checking the system against all its requirements. We then came up with a schedule of testing phase and identified the below set of testing methods.

- Unit testing
- System testing
- Integration testing
- UI testing
- Performance testing

- Stress testing
- Automation testing

And then for each testing type mentioned above, we came up with corresponding test cases and established the coverage criteria.
In the test execution phase we made sure all the test cases are executed in order to ensure proper functionality of the website. The bugs identified during the execution phase are reported, tracked and fixed.

11.2 Unit Testing

TC #	Test case description	Expected Result	Test Result
TC_001	The user should be navigated to the home page on click of the below URL	The user is navigated to the home page on click of the below URL.	Pass
TC_002	The user should be able to view the menu consisting of Home, CrimeMap, Statistics, Share your Experience and About Us buttons	Menu with Home, CrimeMap, Statistics, Share your Experience and About Us buttons is displayed to the user.	Pass

TC_003	The user should be navigated to CrimeMap div on click of CrimeMap button	The user is navigated to CrimeMap div on click of CrimeMap button	Pass
TC_004	The user should be provided with options to enter the address or get current location and view statistics.	The user is provided with options to enter the address or get current location and view statistics.	Pass
TC_005	The user should be able to view the recent crimes happened in a location on click of “go” button	The recent crimes happened in a location are displayed to the user on click of “go” button	Pass
TC_006	The user should be able to view the crimes statistics on click of “statistics” button	The crime statistics are displayed to the user on click of “statistics” button	Pass
TC_007	The user should be able to view the crimes statistics on click of “statistics” button	The crime statistics are displayed to the user on click of “statistics” button	Pass
TC_008	The user should be able to view the crimes statistics on click of “statistics” button	The crime statistics are displayed to the user on click of “statistics” button	Pass
TC_009	The user should be able to view the crime categories on click of “statistics” button in the menu	The crime categories are displayed to the user on click of “statistics” button in the menu	Pass

TC_010	The user should be able to view the crime information in a specified location marked on the map on click of “a crime category” button in the statistics div.	The crime information in a specified location marked on the map are displayed to the user on click of “a crime category” button in the statistics div.	Pass
TC_011	The user should be able to view options for him to share his experience about a specific location by clicking the share your experience button.	The user can share his experience by clicking on the share your experience button.	Pass
TC_012	The user should be able to rate a location by clicking on the rating stars.	The user can rate a location by clicking on the rating stars.	Pass
TC_013	The end users should be able to view the recent posts shared by existing users.	The end users can view the recent posts shared by existing users.	Pass
TC_014	The user should be able to view the details about who have developed the application and their roles in designing the application.	The user can view the details about who have developed the application and their roles in designing the application.	Pass
TC_015	The user should be able to share his experience with others through social media websites like Facebook, Twitter, GooglePlus.	The user can share his experience with others through social media websites like Facebook, Twitter, GooglePlus.	Pass

11.3 GUI Testing

This is a state based method of testing. The scope of GUI testing includes testing the major user interface functionality. As part of this testing we have tested all the possible controls accessed by the end user and made sure they are fully functioning.

11.4 Performance and Stress Testing

We have used the tool blazemeter for testing the performance and load. We have successfully tested our application with different loads. Each time we have tested by changing the number of users (20, 100, 150) Please find the screenshot below.

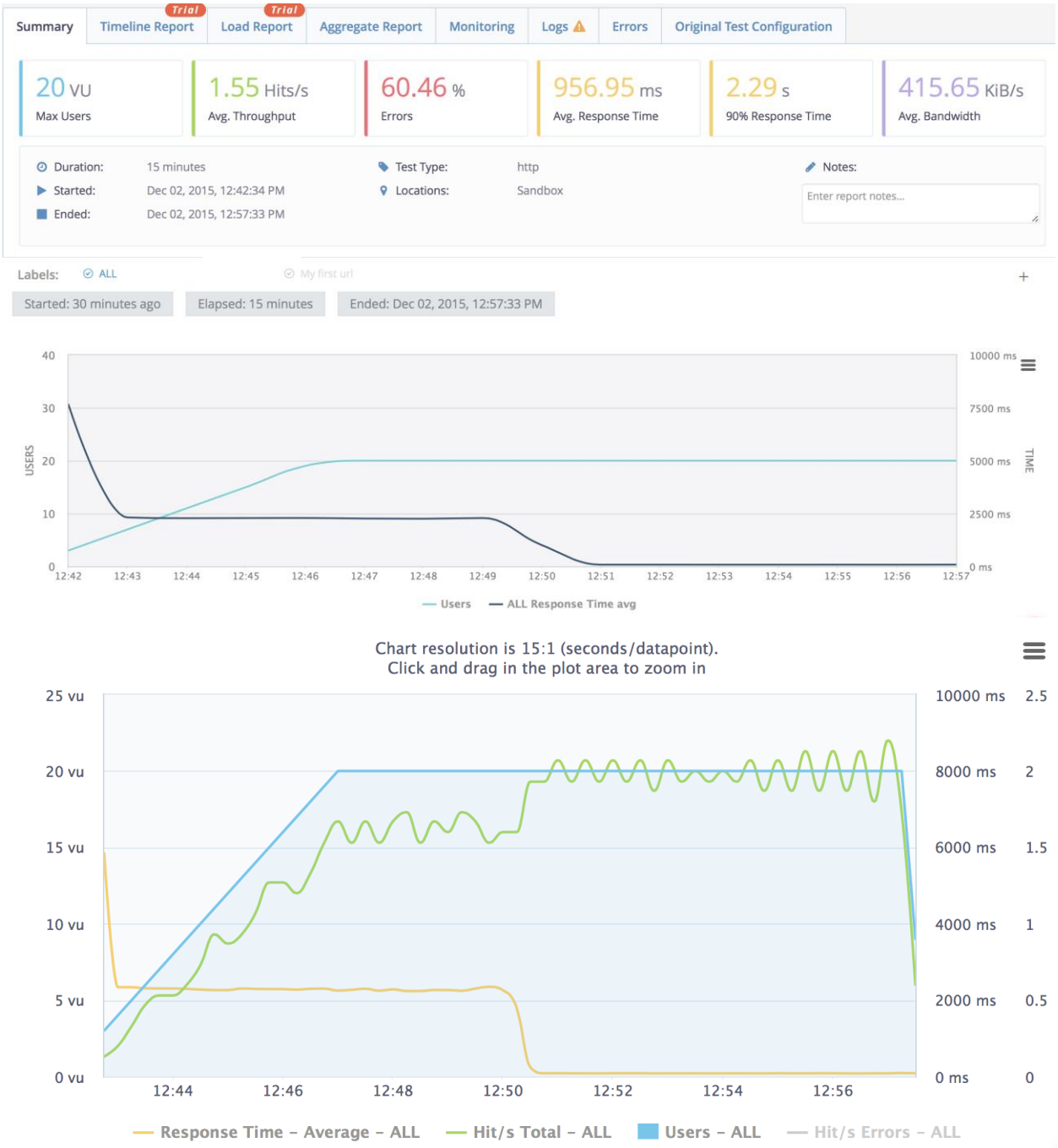


Figure 11.4: load and response time

12. Automation

Automation testing uses external tools and software to control the execution of test cases. It also compares the actual outcomes against the predicted outcomes. Though manual testing is done, there are certain parts which may not be covered in manual testing. Hence we decided to perform Automation testing. We have used Selenium tool to test our application

We have downloaded and installed Selenium 2.9. We access this tool by clicking on the selenium icon created after installation. We have written the required test scenarios and ensured the corresponding functionality works as required.

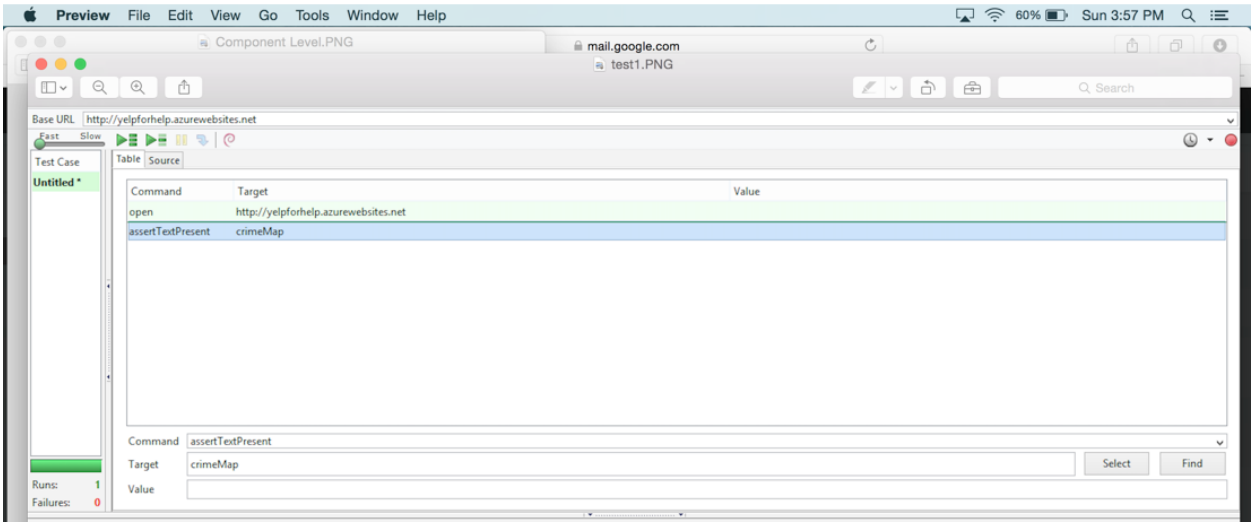


Figure 12.1: test the functionality of CrimeMap

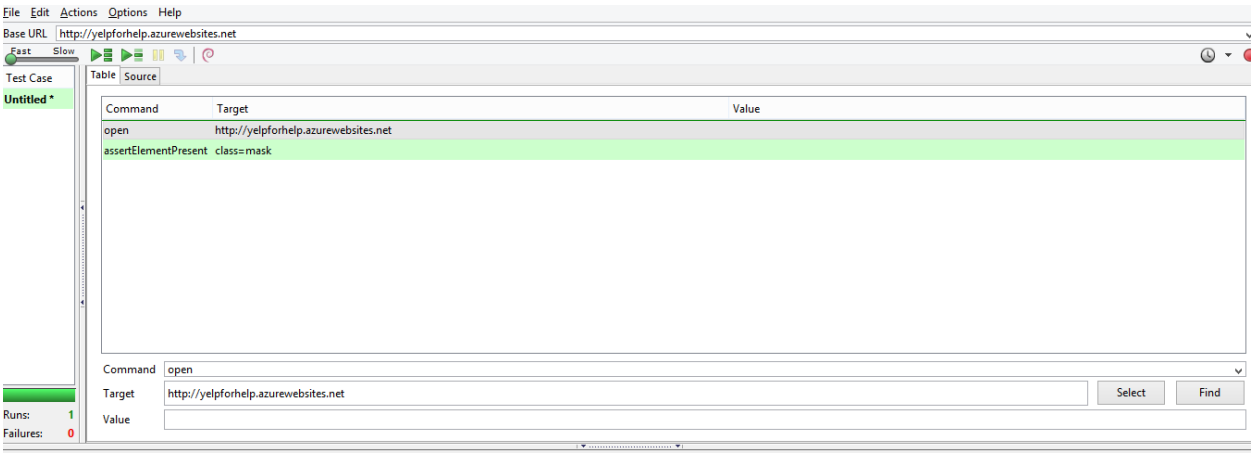


Figure 12.2: test the required elements of a page

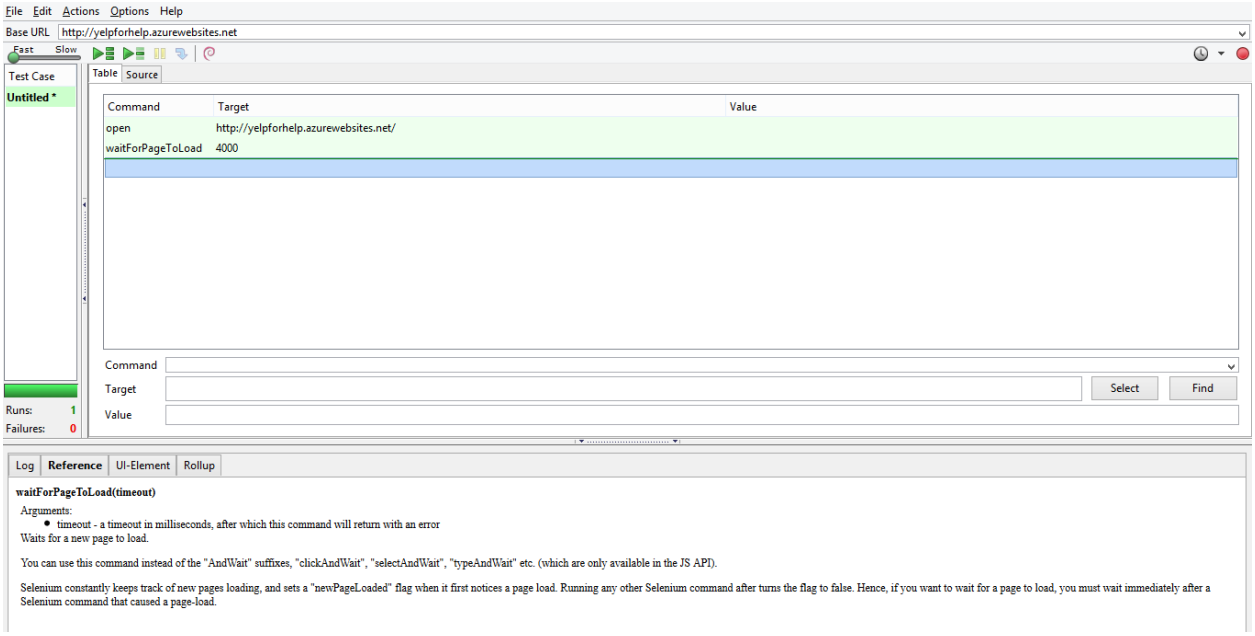


Figure 12.3: test the page load time by providing a target time

13. Cross browser compatibility

End users will have various devices from where they can access the application. As they have wide choice of browsers, it is developer's responsibility to ensure that the web application created is compatible with all the browsers.

Cross Browser refers to the ability of a web application or client side script to function in all the environments. There are different ways of implementing cross browser compatibility. It sometimes may require significant extra coding to have multi browser compatibility and sometimes developers may even need to generate completely different pages for each browser. We chose to use Bootstrap in order to ensure cross browser compatibility of our application.

We have used Respond.js to implement the cross browser compatibility. This enables the older browser versions to understand and execute CSS3 media queries when this script is called on the page.

```
<script type="text/javascript" src="js/respond.min.js"></script>
```

The above script adds support to media queries, min-width, max-width, and all media types for older browsers. This script helped our CSS3 instructions work properly, even for older browsers.

There by,we ensured that our laptop works well with various devices like computers, laptops, phones, IPADS etc. Please find below screenshots where application runs on mobile and IPADs.

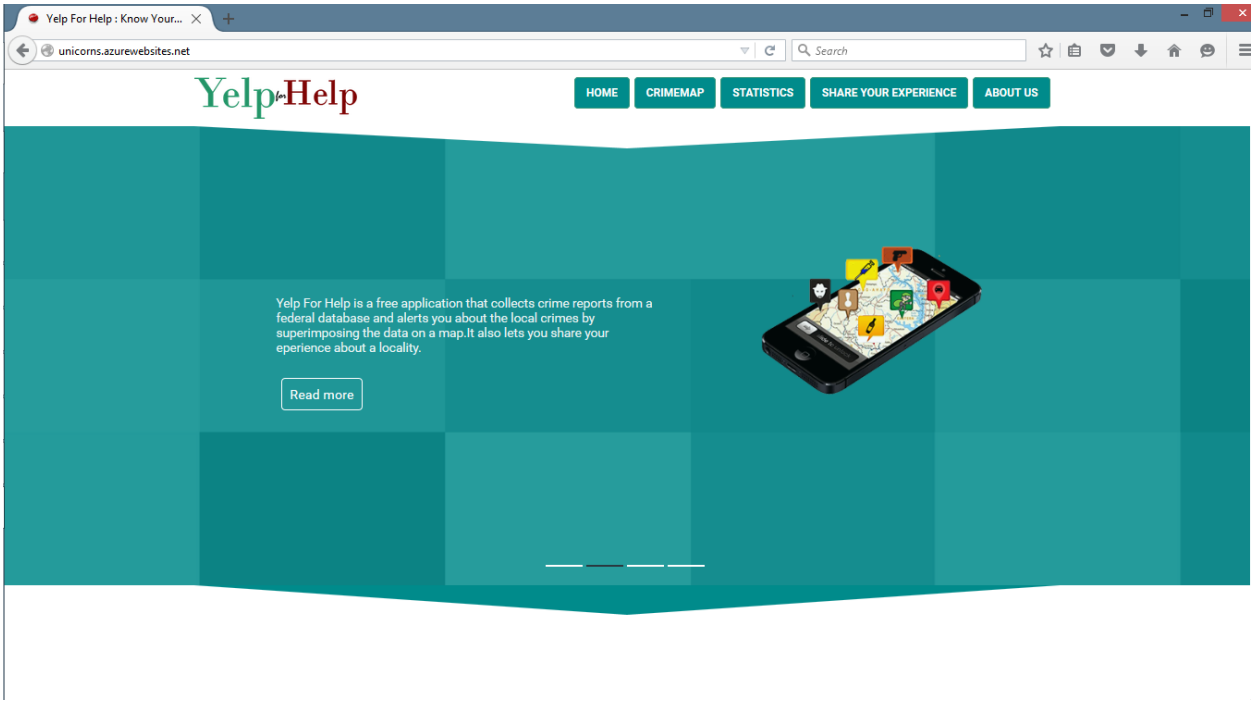


Figure 13.1 Yelp for Help in Firefox

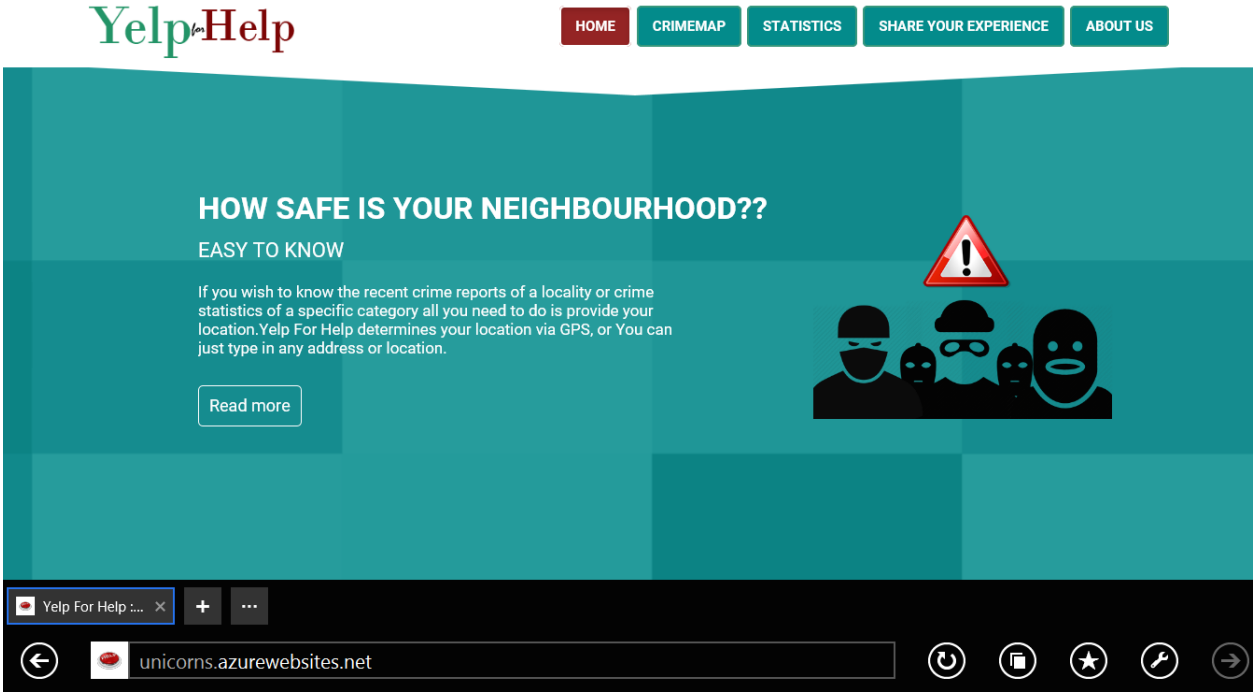


Figure 13.2 Yelp for Help in IE

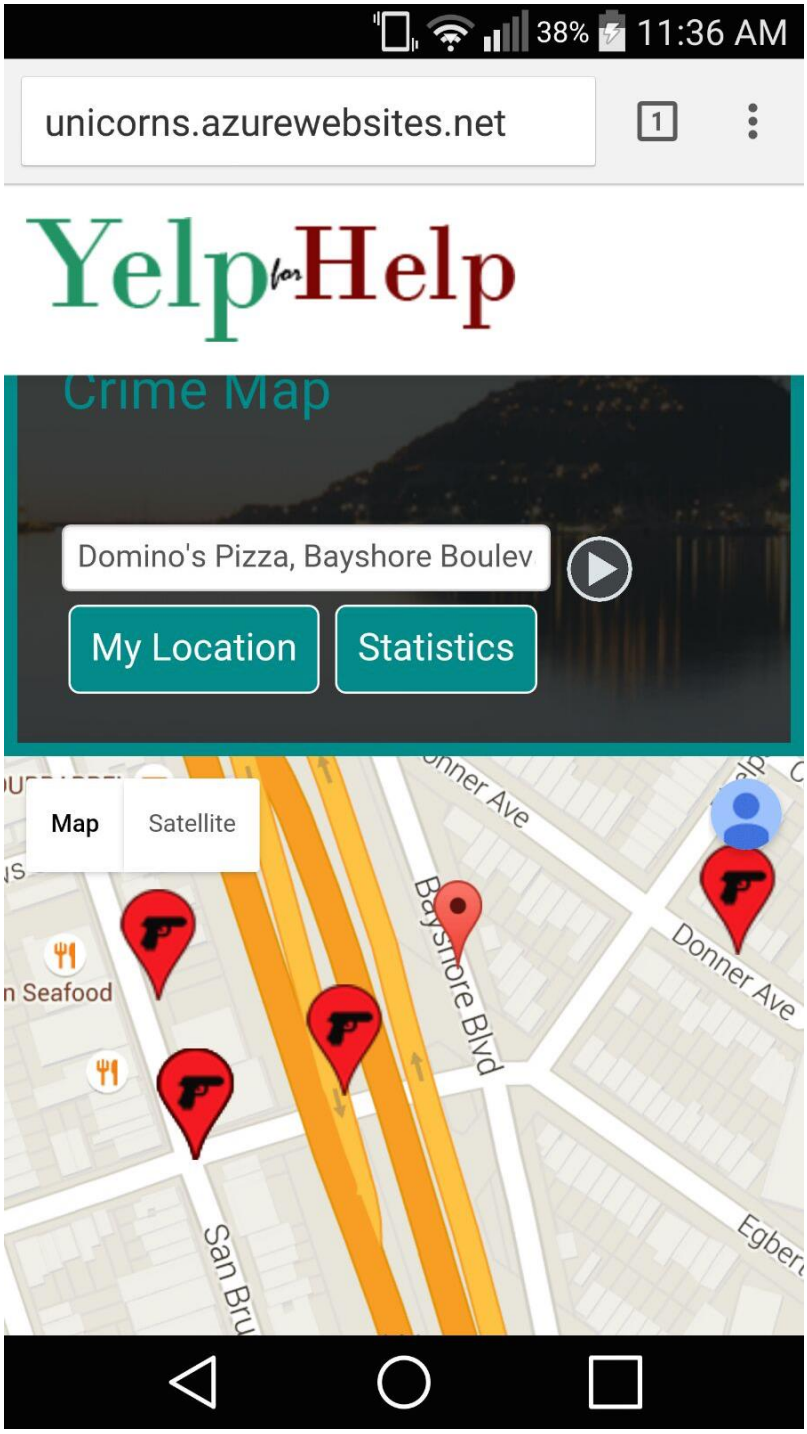


Figure 13.2 Yelp for Help in Mobile

14. Java Script Libraries

Advanced JavaScript programming is often time consuming and difficult to work with. To overcome these difficulties, we used the JavaScript libraries in building a Rich Internet Application. Listed below are the JavaScript libraries used in our application

14.1 Bootstrap3

Bootstrap is the most popular HTML, CSS, and JS framework used for developing responsive web applications. With all the predefined templates it makes the front-end development faster and easier.

To avoid the dependency on internet initially we have downloaded and saved the complete bootstrap into local machine. Later we Included Bootstrap from a CDN by providing a link in the head section.

14.2 Ajax

Asynchronous JavaScript and XML is a set of web development techniques which allows developers to update a page without actually reloading the entire page.

14.3 Jquery

jQuery is a fast, small, and feature-rich JavaScript library. It makes things like HTML document traversal and manipulation, event handling, animation, and Ajax much simpler with an easy-to-use API that works across a multitude of browsers. We have used Jquery to toggle divs.

14.4 High Charts

These are the interactive charts used to view data in the form of graphs and charts on a web page. We have imported the bar charts and embedded them to our website. Using bar charts we are able to compare the intensities of various crimes happening in and around the specified location. These high charts don't require any plug in and it just needs the java script notation structure which consists of keys and values with colons, grouped by brackets and separated by commas.

We have also used 3rd party JavaScript libraries for high charts, Google maps. With all these technologies we were able to build a Rich Internet Application (RIA).

15. Design Patterns Used

A design pattern is a generalized template or a solution to a commonly occurring problem for a given scenario. They are the standard practices which are to be followed by a developer in order to easily fix the issues faced while developing an application.

We have implemented a singleton design pattern in our application. We have a class "GenerateMap" used to generate single object of google map. This approach helps us in understanding the fact that we can instantiate a class only once.

16. Pagination

Pagination is the process of dividing a document into discrete pages, either electronic pages or printed pages. Today printed pages are usually produced by outputting an electronic file to a printing device, such as a desktop printer or a modern printing press.

Pagination is the process of dividing a document into discrete pages when the website becomes too long. It provides the user with navigation options if they wish to view the content in next pages.

In our application, we have implemented pagination for the About Us page while displaying the client reviews. The number of reviews displayed per page are limited to 3. If more than 3 reviews are fetched from the database, only 3 are displayed per page.

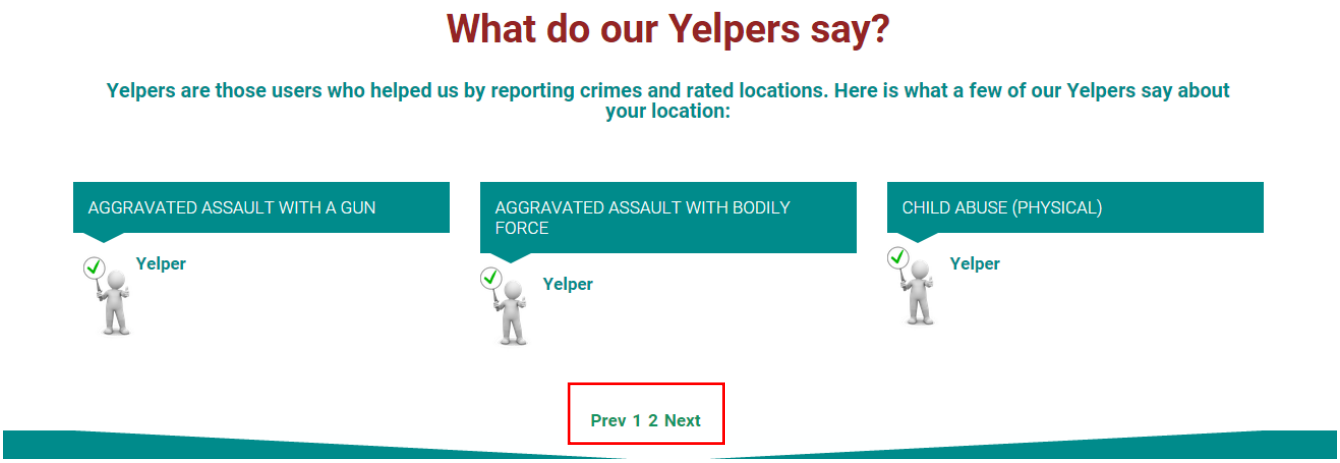


Figure 18 Pagination

17. SEO (Search Engine Optimization)

This is a process of increasing the number of visitors to our website. By implementing search engine optimization, we need to ensure that our website appears high on the list of results returned by a search engine.

We considered the below factors for search engine optimization:

- The page content

  To grab the search engines attention, we made sure to include as many key words as possible in our content, and placed our content with in the H1 tags.

- The page title

  This provides the search engine with most relevant key words for the web page. We made sure that our title has relevant key words and no repetitive words.

- The meta data description

  In this section we wrote a short summary of what our website does by including the keywords. We made sure that there is no repetition of key words as this would result in lowering the rank of our website.

- The meta keywords

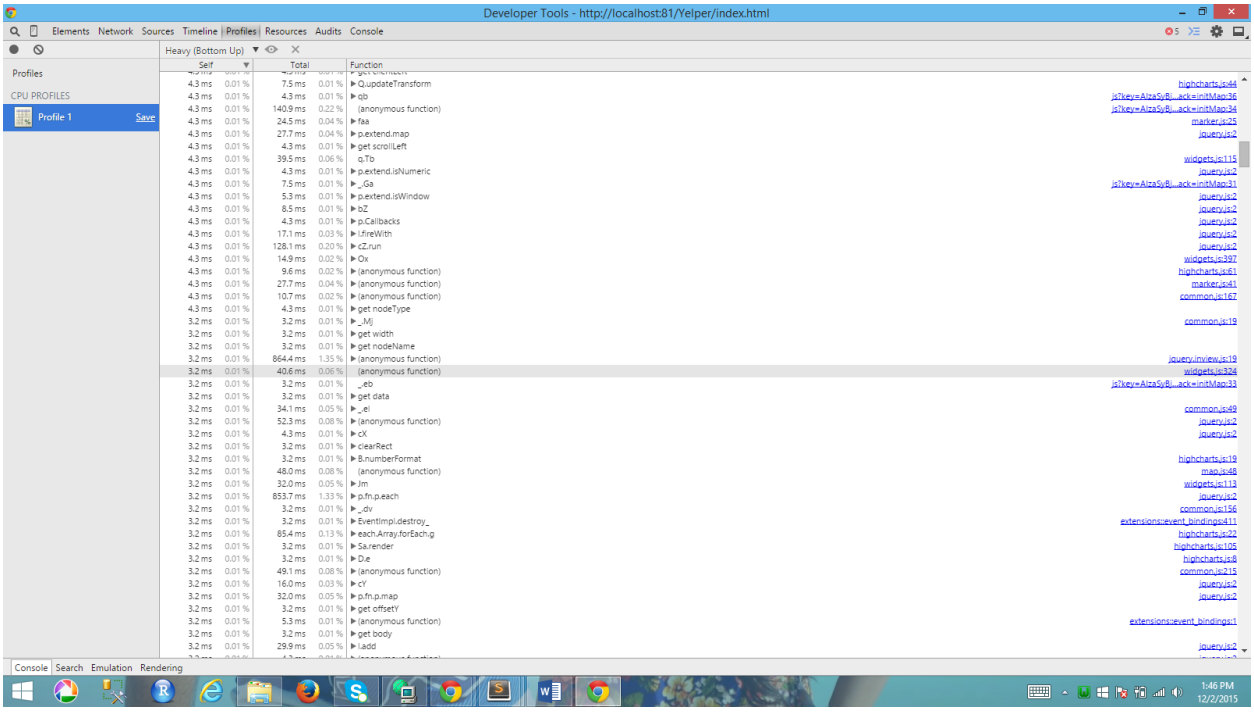
  In this section we made sure we used both keywords and phrases, prioritized the keywords from most important to least important, separated the keywords and phrases with commas.

```
<HTML XMLNS="http://www.w3.org/1999/xhtml" XML:LANG="en">
 <HEAD>
 <TITLE> Yelp for Help : Know your neighborhood </TITLE>
  <META NAME="description" CONTENT="Yelp for Help is a free application that collects crime reports from a federal database and
alerts you about the local crimes by superimposing the data on a map. It also lets you share your experience about a locality">
  <META NAME="keyword" CONTENT="crime, location,
  reports, safety, neighborhood, SEO">
 </HEAD>
 <BODY>
 <H1>Yelp for Help: Know Your Neighborhood</H1>
 </body>
 </html>
```

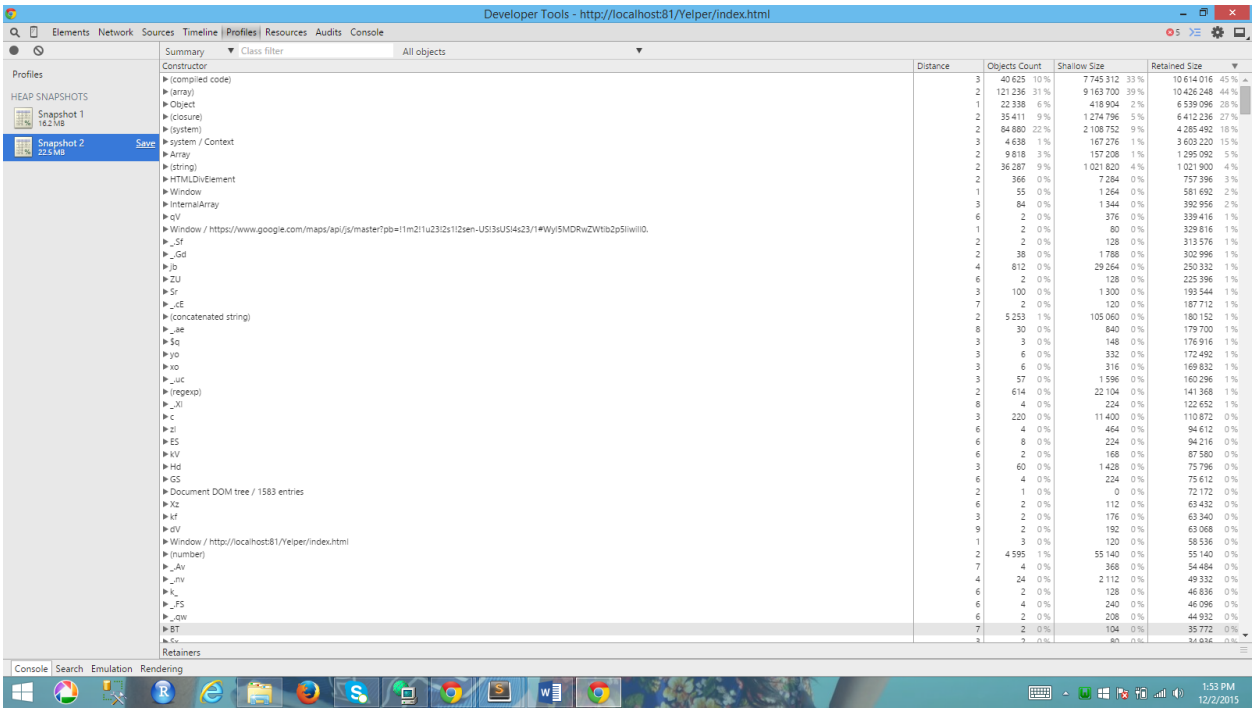
18. Profiling

Profiling is done to identify the potential problems occurred during the development and thus help in significantly reducing the problems which may occur in the later stages. The two important profilers that can be considered by the developer are: Performance profiler and memory profiler

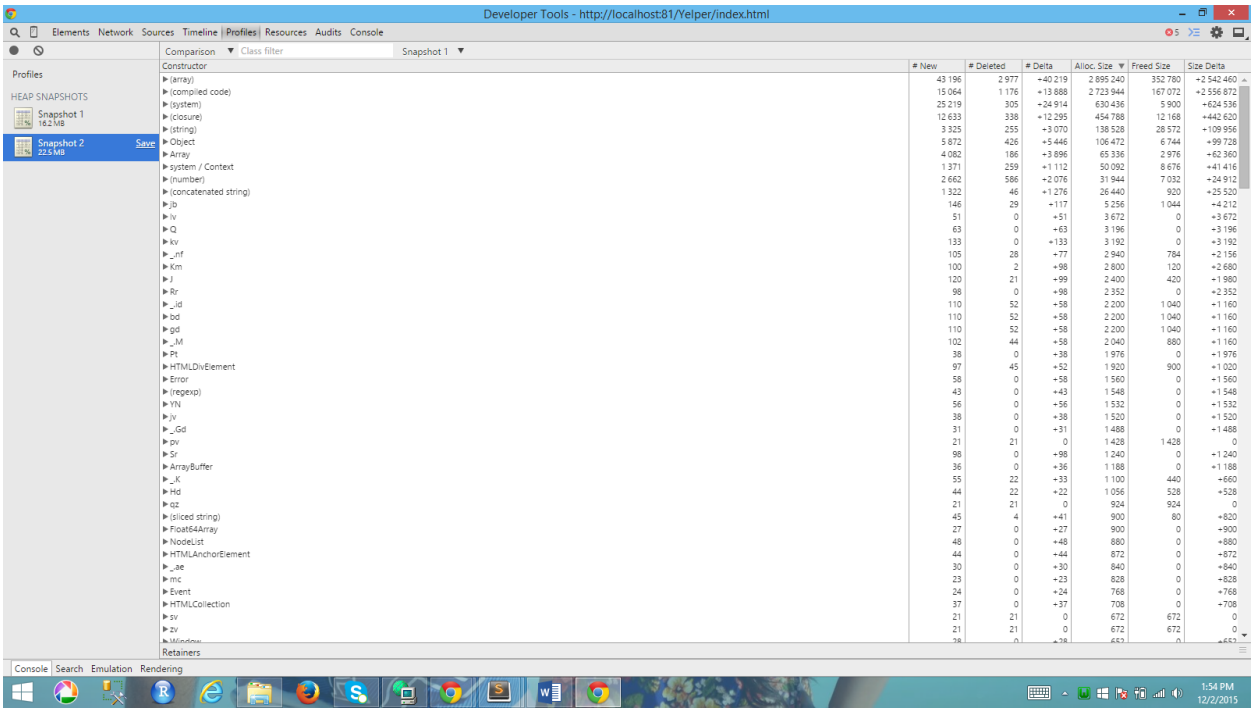
CPU Profile:



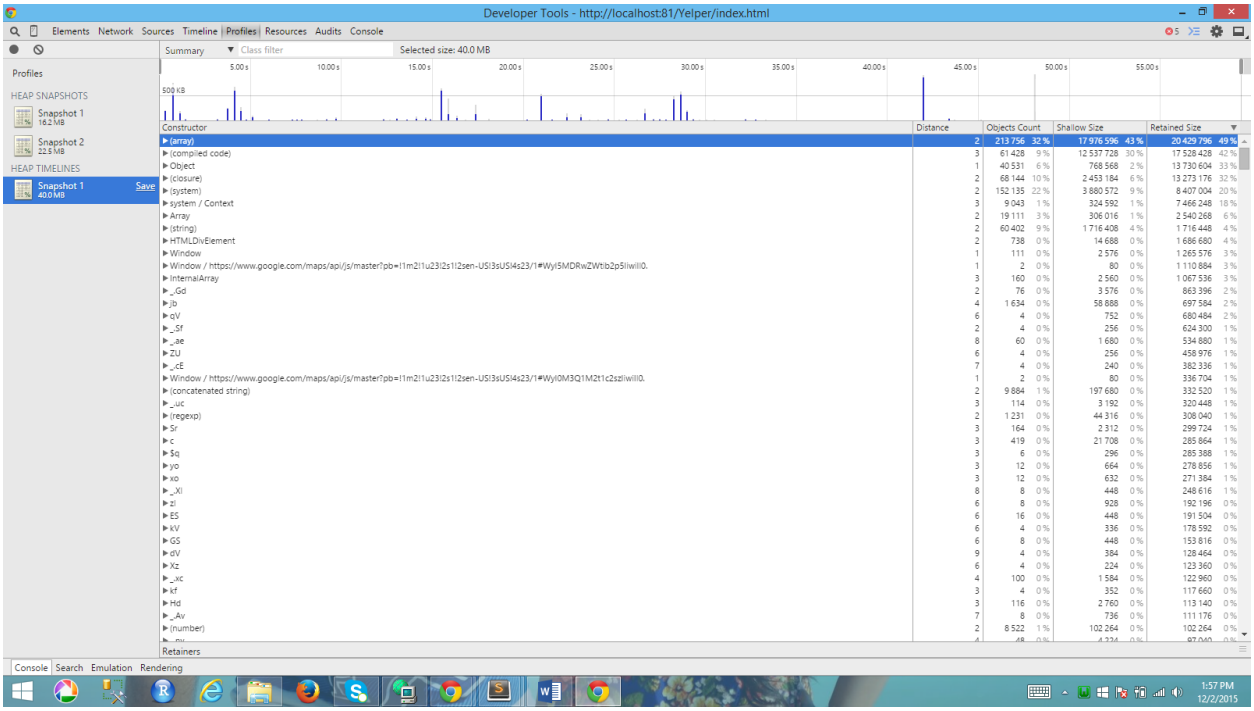
Summary of Heap Snapshot of all objects:



Heap object comparison:



Heap Allocation Timeline:



Used inbuilt methods in PHP which will give basic information like Time consumption by the script and also the memory used for processing the request. Those methods are "microtime_float" and "memory_get_peak_usage"

Time consumed to insert user rating : 1.1997470855713secs
Memory used to insert user rating : 147.41 kilobytes

Time consumed to insert user rating : 4.9861490726471secs
Memory used to insert user rating : 143.08 kilobytes

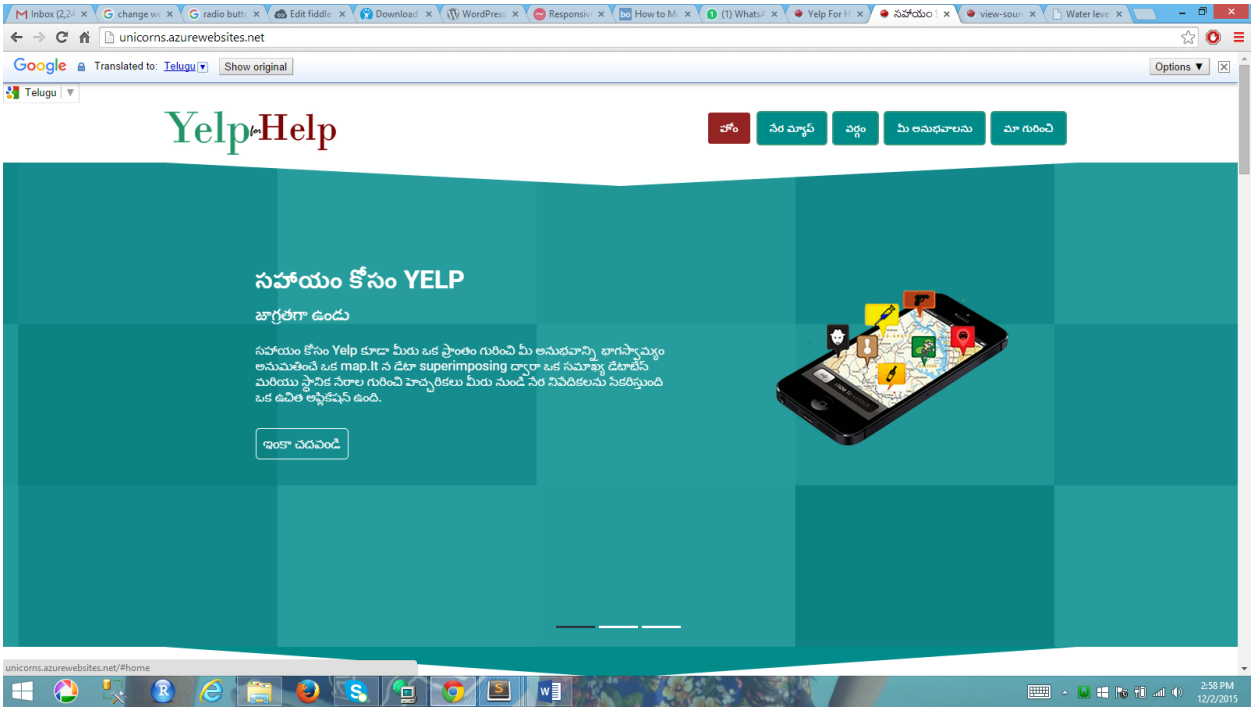
Time consumed to get random user experiences : 1.4350399971008secs
Memory used to get random user experiences : 144.04 kilobytes

Time consumed to get rating : 0.18826889991 76secs
Memory used to get rating : 143.34 kilobytes

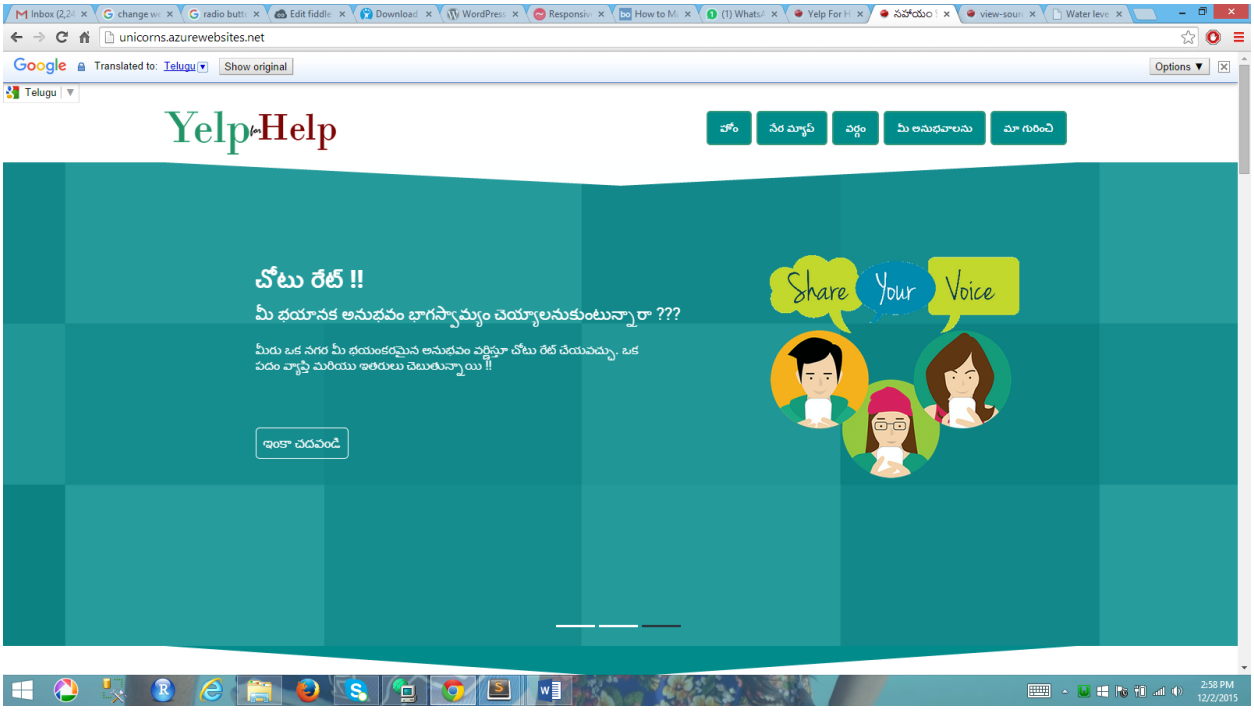
19. Localization

Localization is the process of changing the language of the website to the local language chosen. It makes it easy for the users to understand and use the application if they are given an option to view it in their local language. With the implementation of Localization our website is able to adapt to any local language. While implementing this we ensured that only language is changed an other parts of the website are not modified.

If we choose Telugu as our local language, the application is translated to Telugu.



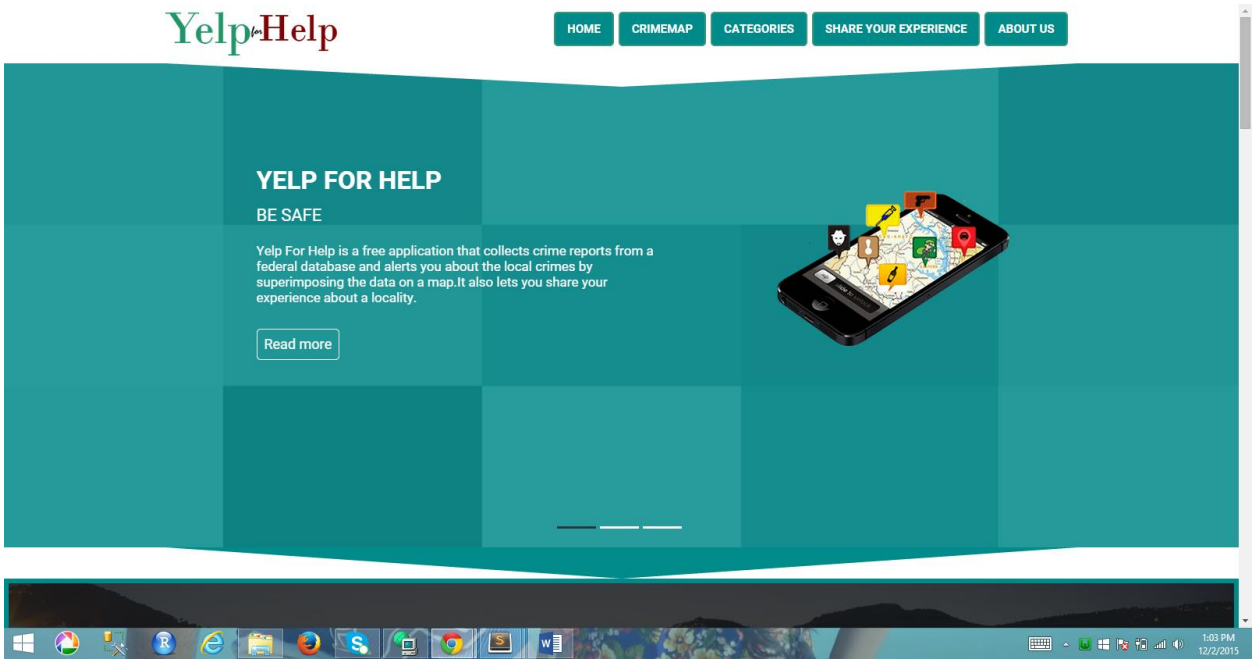

unicorns.azurewebsites.net
Translated to: Telugu
Show original
Options
దయచేసి వర్గాన్ని ఎంచుకోండి
మీ ప్రాంతం నేరాల గణాంకాలు తెలిసిన మరియు సురక్షితంగా ఉండటానికి
అసాల్ట్
త్రాగుడు
కిడ్నాప్
రాబరీ
వాహనాల దొంగతనాలు
మాదక
సోషల్ మీడియా మీ అనుభవాన్ని పంచుకోండి.
2:56 PM
12/2/2015

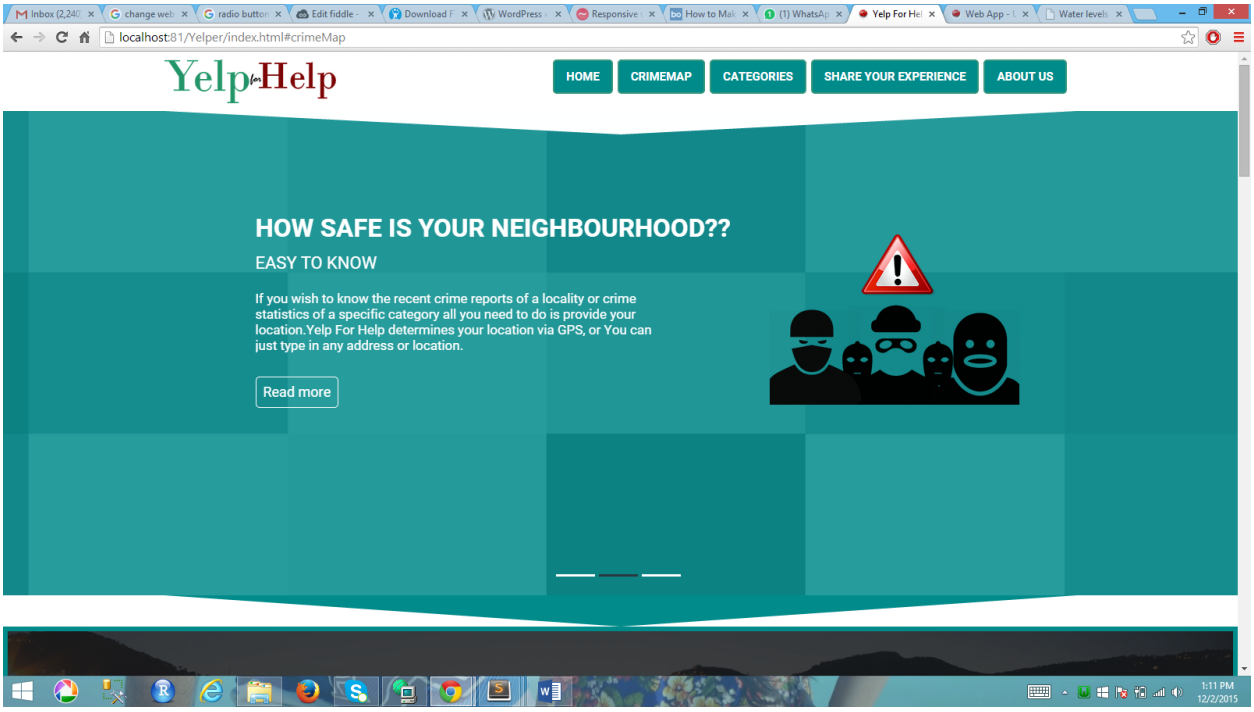

unicorns.azurewebsites.net
Translated to: Telugu
Show original
Options
Telugu
YelpforHelp
హోం
నేర మ్యాప్
వర్గం
మీ అనుభవాలను
మా గురించి
చోటు రేట్ !!
మీ భయానక అనుభవం భాగస్వామ్యం చెయ్యాలనుకుంటున్నారా ???
మీరు ఒక నగర మీ భయంకరమైన అనుభవం వర్గీస్తూ చోటు రేట్ చేయవచ్చు. ఒక పదం వ్యాప్తి మరియు ఇతరులు చెబుతున్నాయి !!
ఇంకా చదవండి
Share Your Voice
2:58 PM
12/2/2015

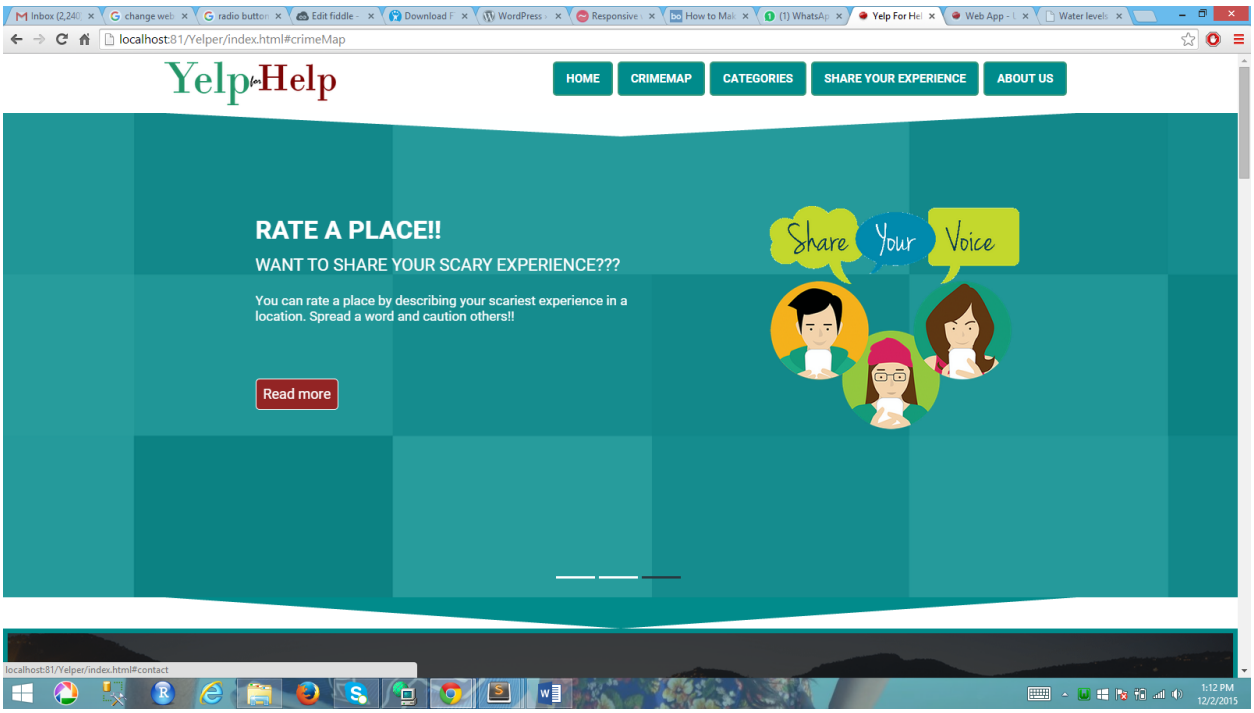
20. Screenshots of the application developed.

20.1 Desktop Screenshots

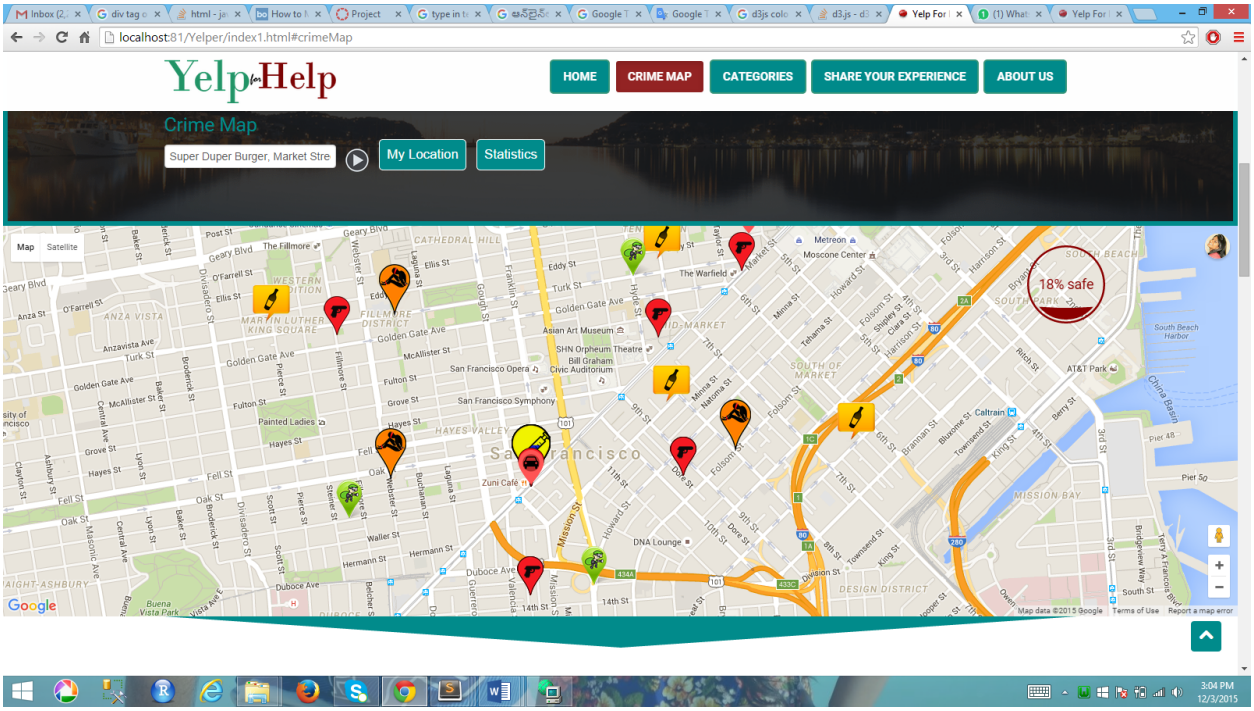
Home screen:

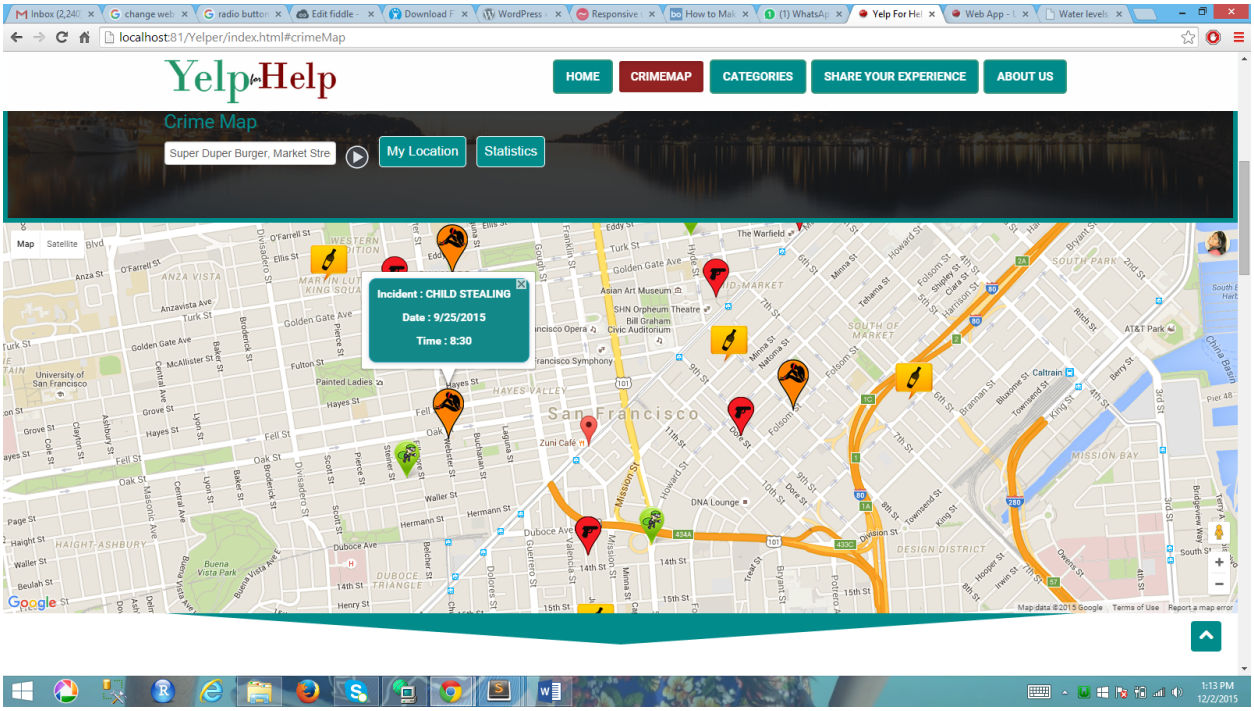




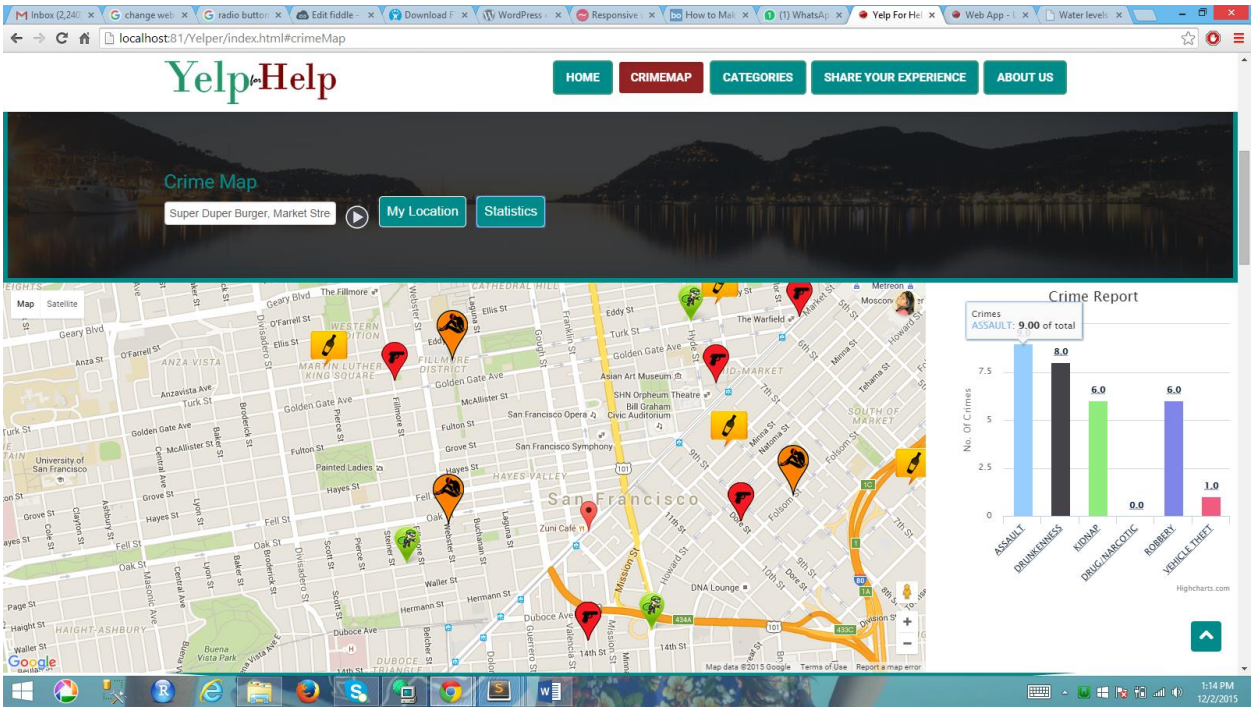


Crime Map: Location: Super Duper Burger, Market Street

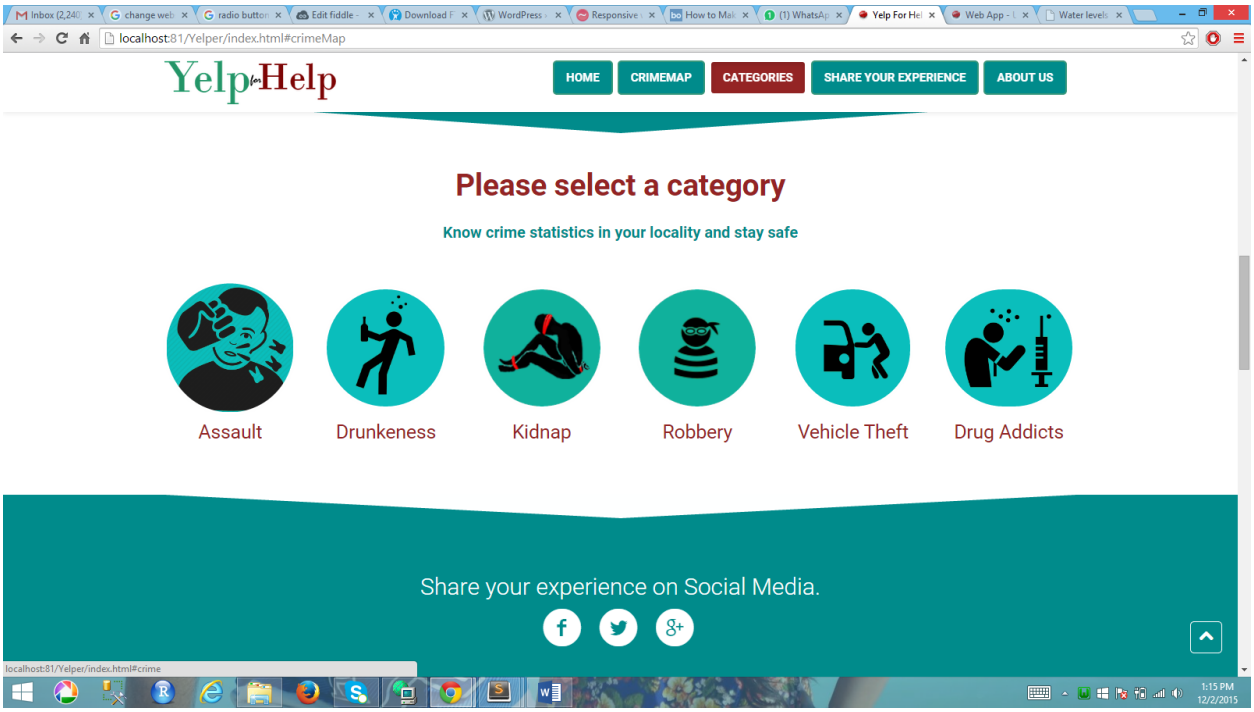



localhost:81/Yelper/index.html#crimeMap
YelpforHelp
HOME
CRIMEMAP
CATEGORIES
SHARE YOUR EXPERIENCE
ABOUT US
Crime Map
Super Duper Burger, Market Stre
My Location
Statistics
Incident : CHILD STEALING
Date : 9/25/2015
Time : 8:30
San Francisco
1:13 PM
12/2/2015

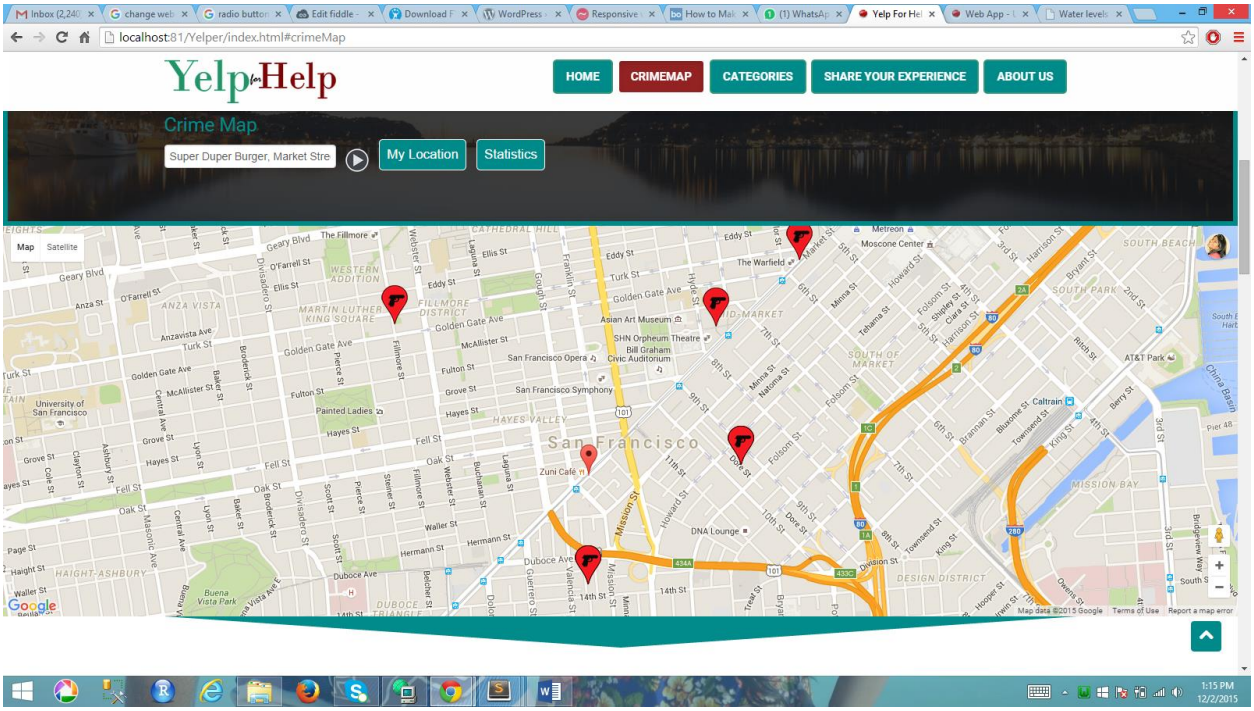
Statistics


localhost:81/Yelper/index.html#crimeMap
YelpforHelp
HOME
CRIMEMAP
CATEGORIES
SHARE YOUR EXPERIENCE
ABOUT US
Crime Map
Super Duper Burger, Market Stre
My Location
Statistics
Crime Report
Crimes
ASSAULT: 9.00 of total
No. Of Crimes
ASSAULT
DRUNKENNESS
KIDNAP
DRUG/NARCOTIC
ROBBERY
VEHICLE THEFT
Highcharts.com
San Francisco
1:14 PM
12/2/2015

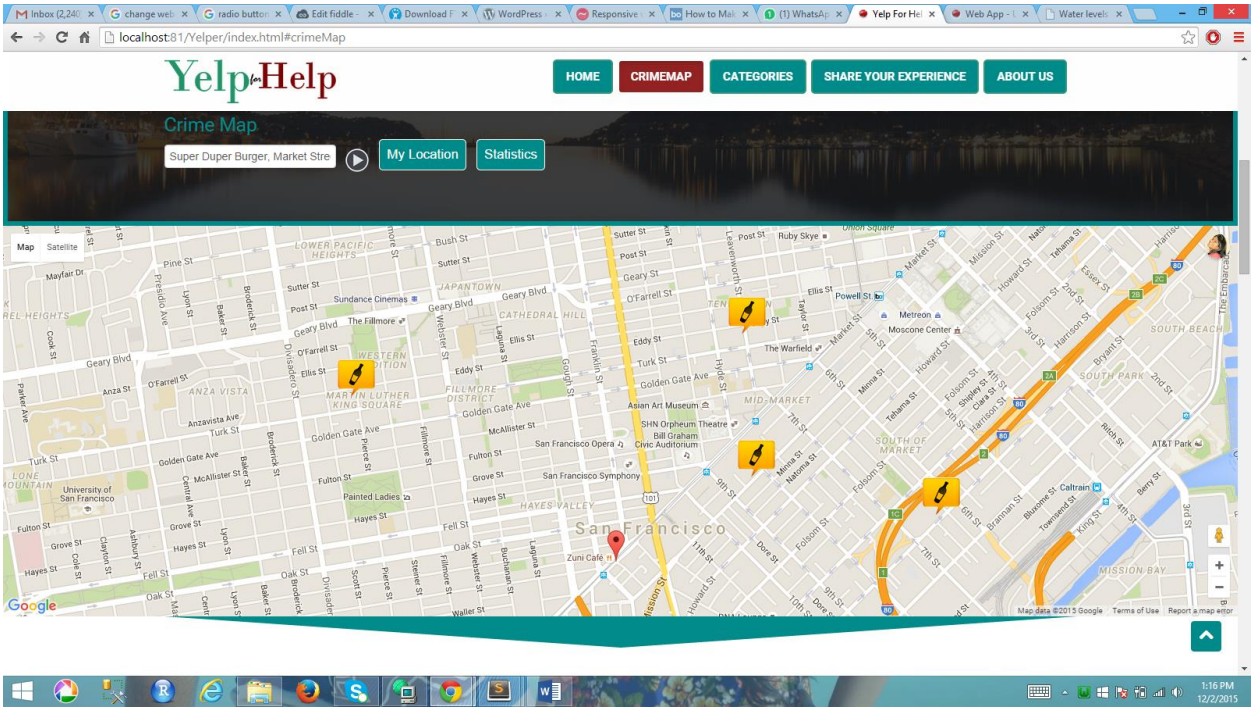
Categories:



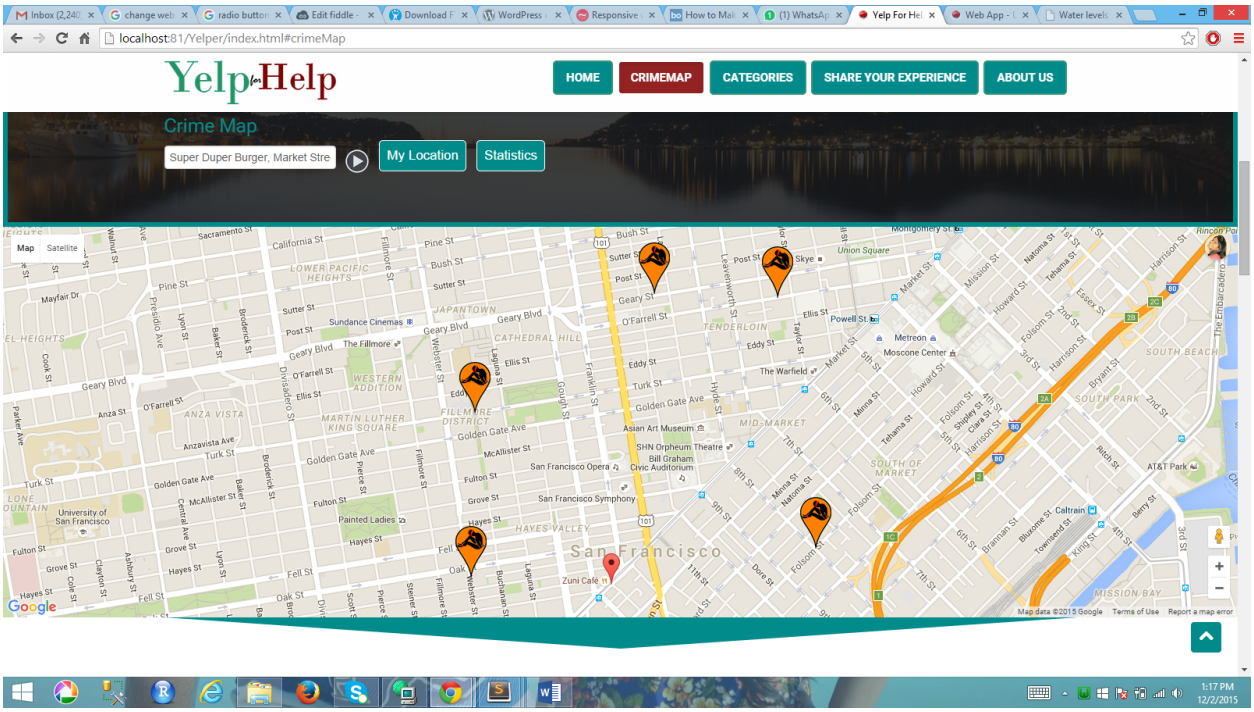
Assault Filter:



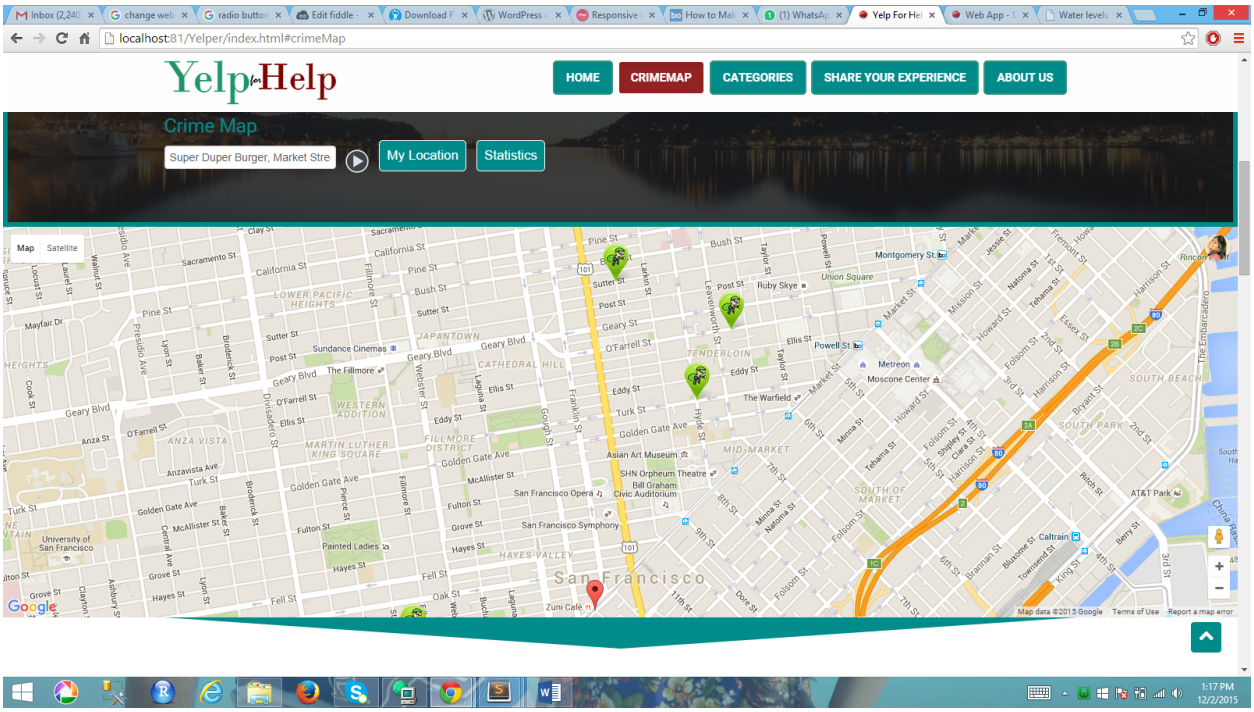
Drunkenness filter:



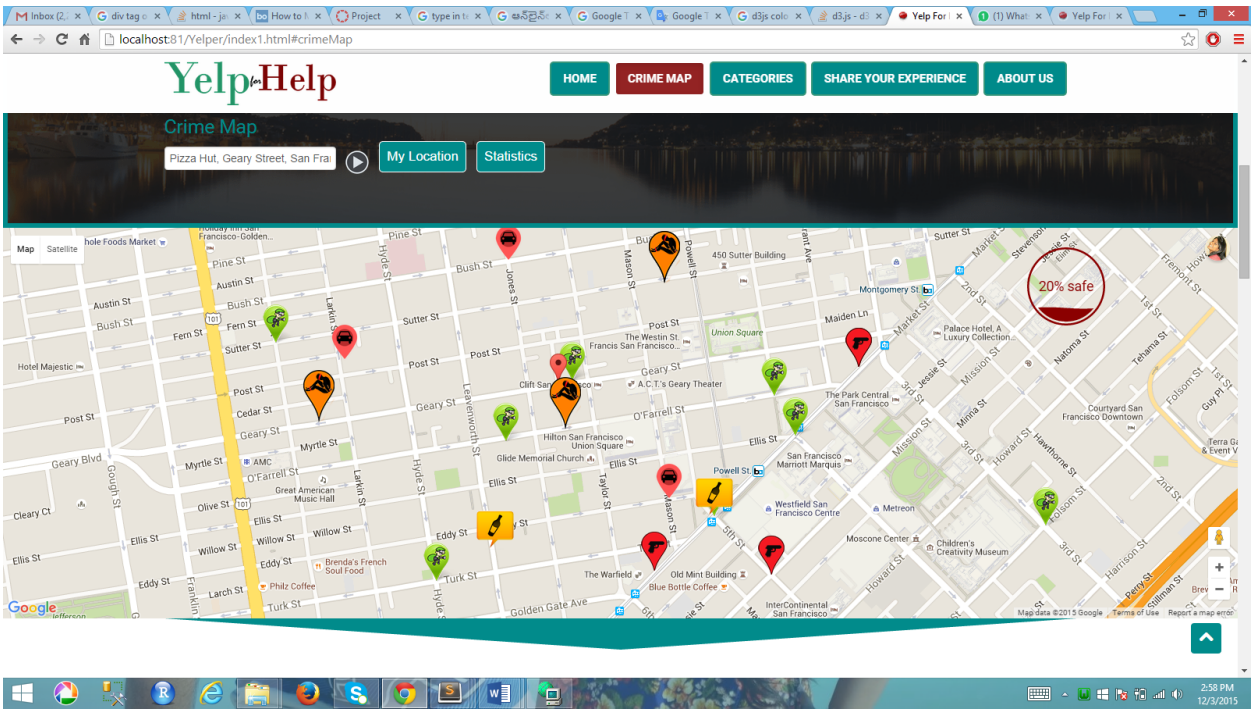
Kidnap filter:



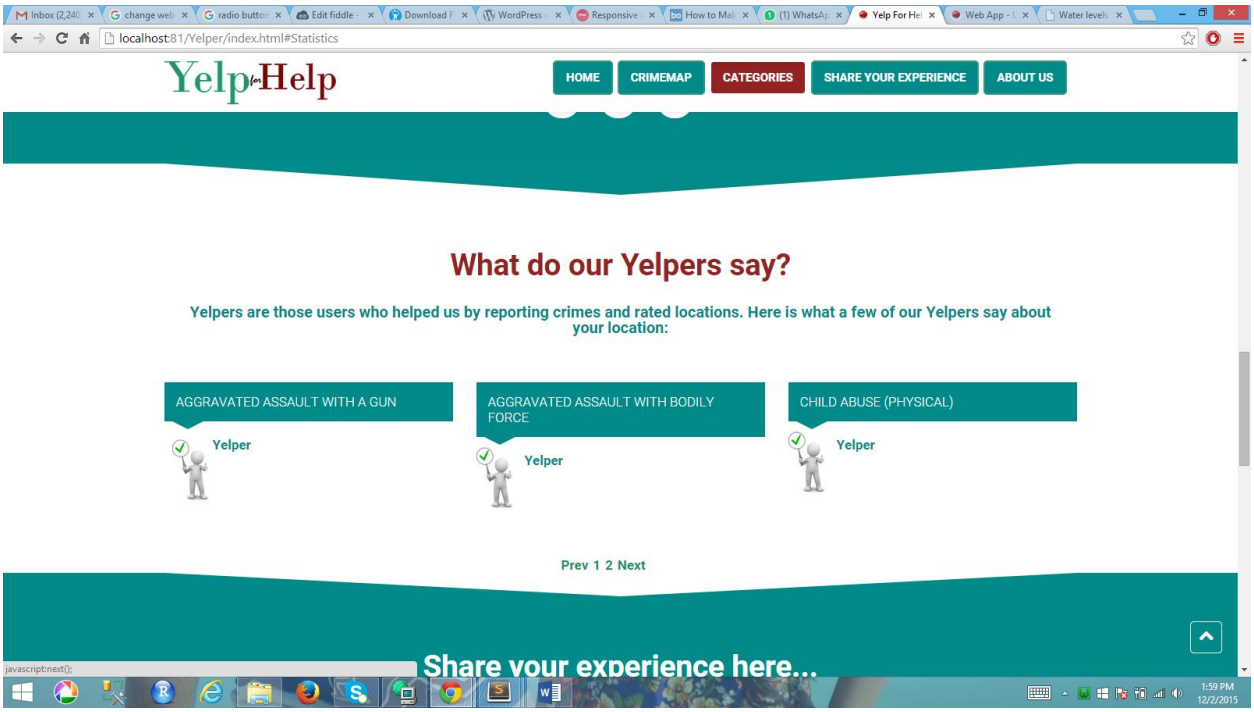
Robbery Filter:



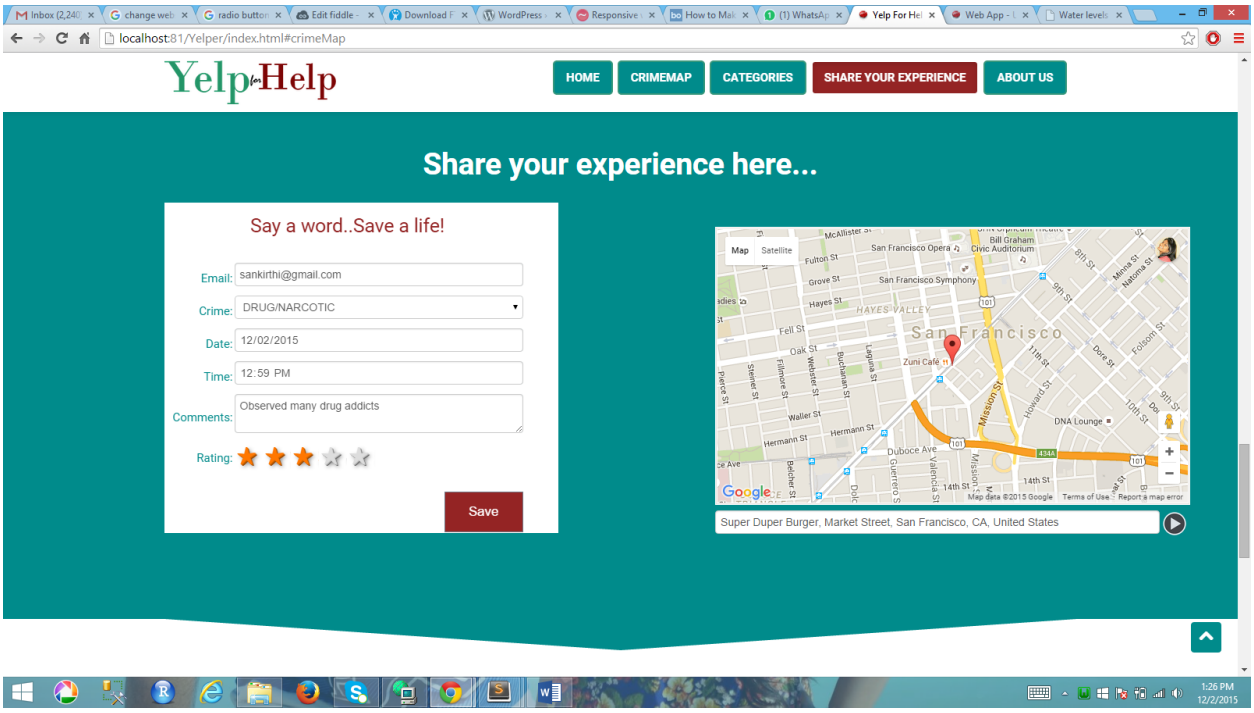
CrimeMap for another location: Pizza Hut, Geary Street, San Francisco, CA, United States



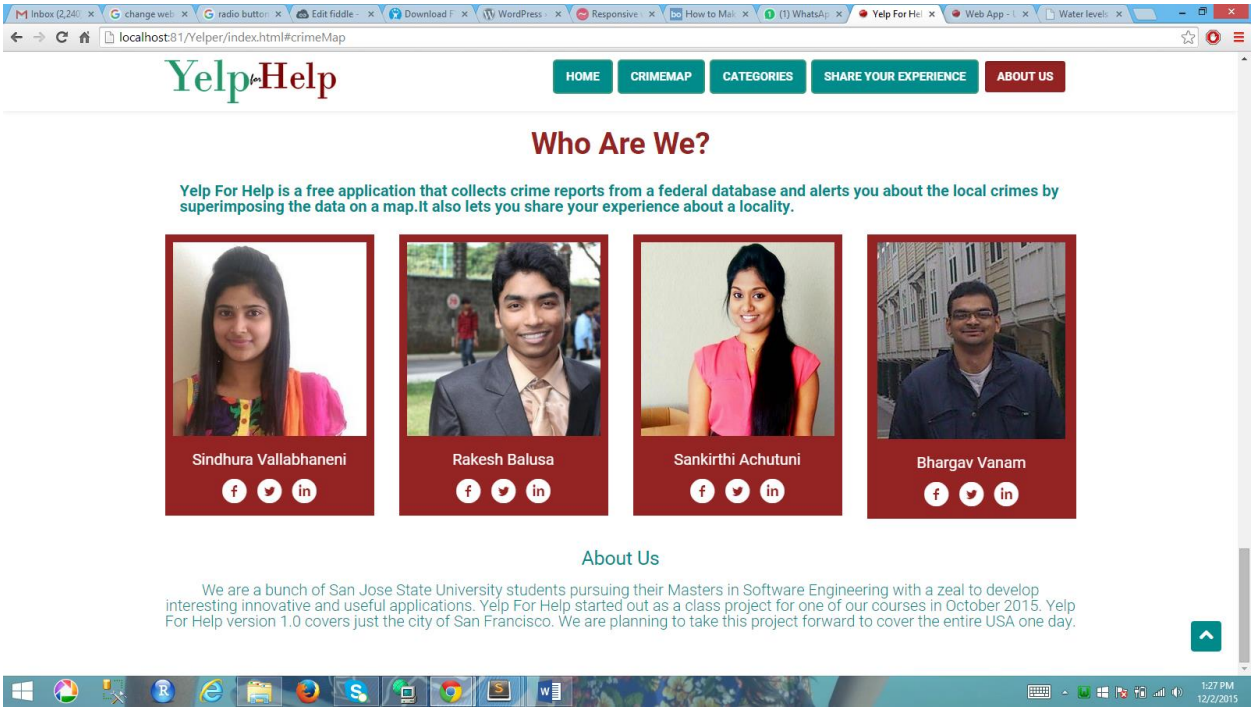
Yelper comments:

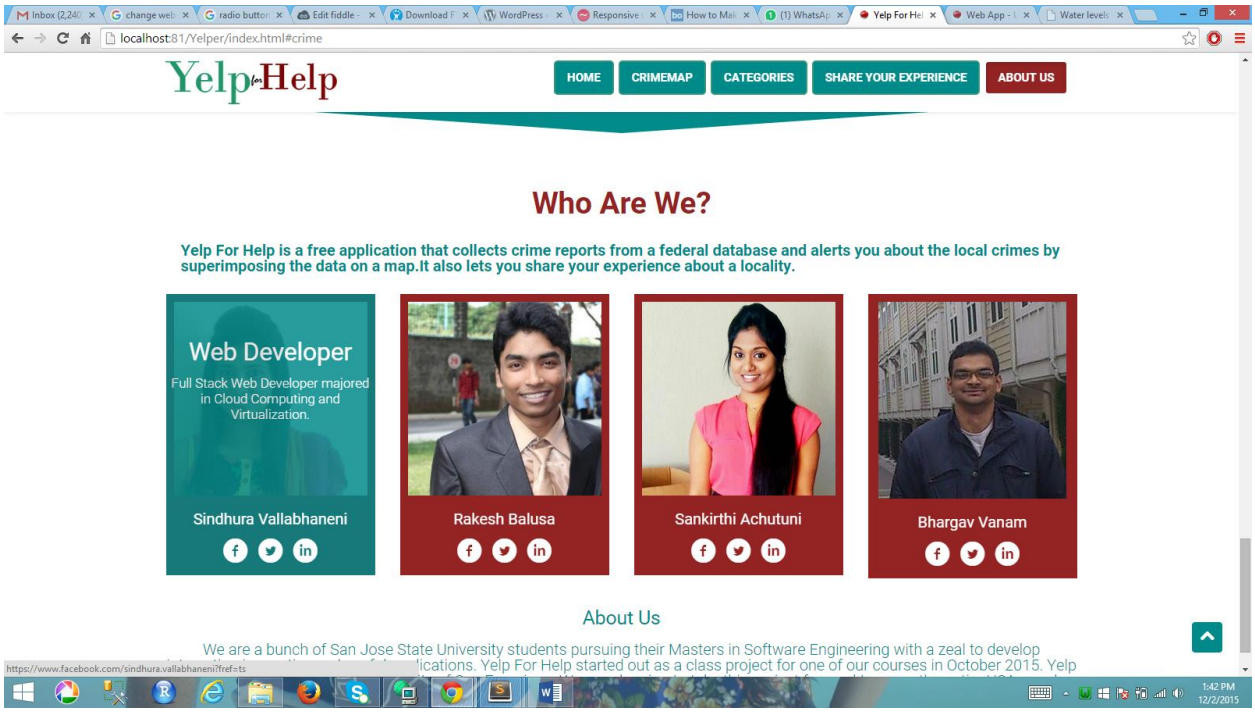


Share Your Experience:

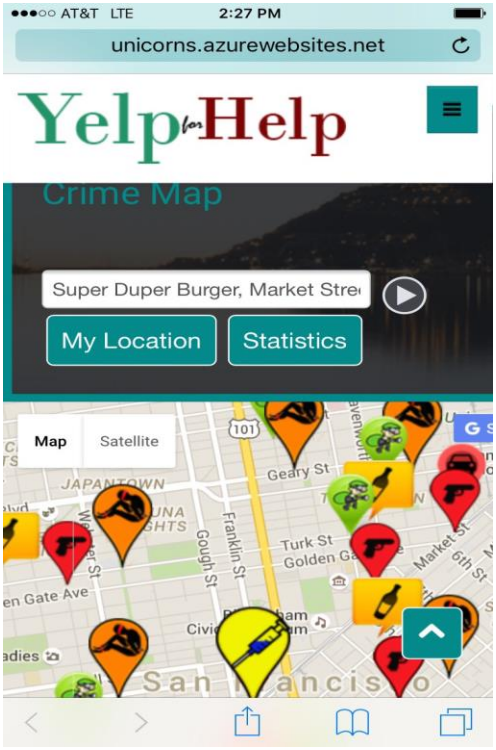


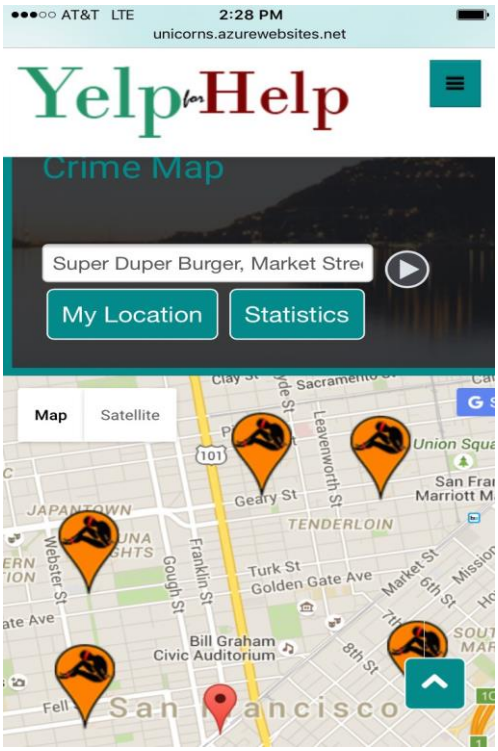
About Us:

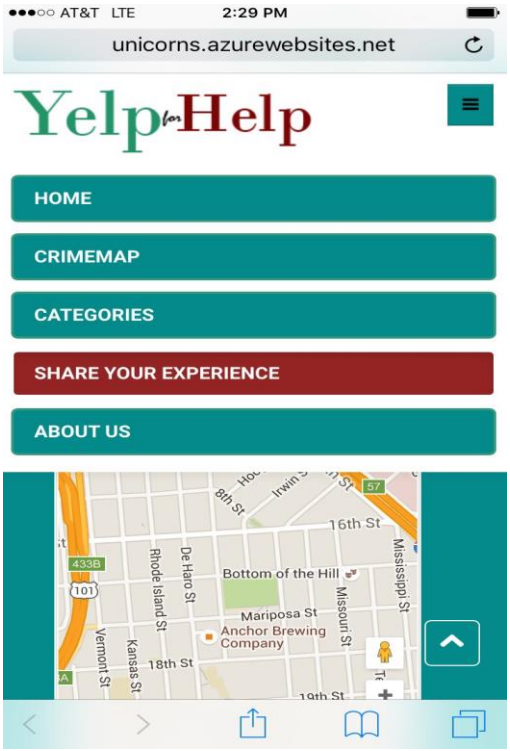


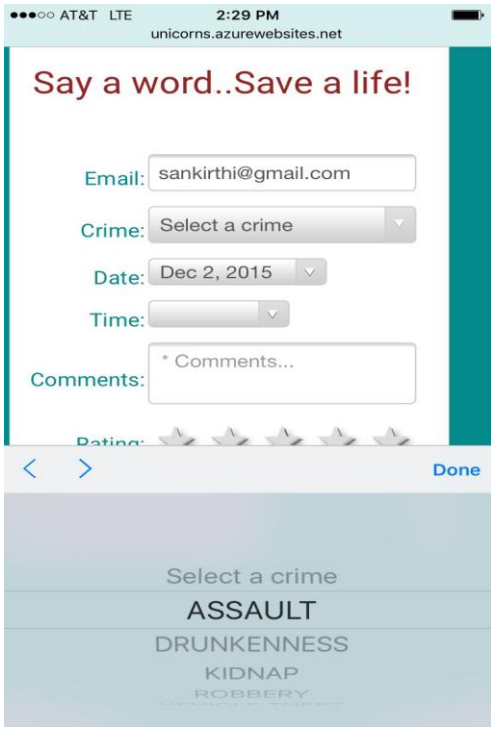


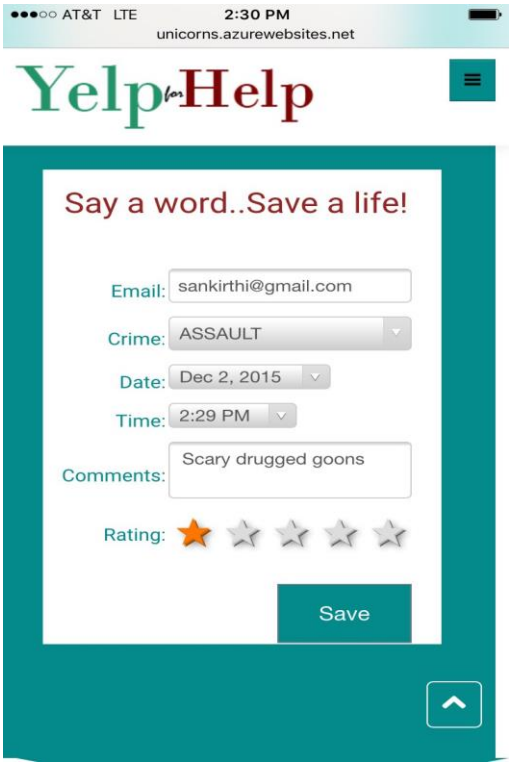
20.1 Mobile Screenshots


AT&T LTE 2:27 PM
unicorns.azurewebsites.net
YelpforHelp
Crime Map
Super Duper Burger, Market Stre
My Location
Statistics
Map
Satellite


AT&T LTE 2:28 PM
unicorns.azurewebsites.net
YelpforHelp
Crime Map
Super Duper Burger, Market Stre
My Location
Statistics
Map
Satellite


AT&T LTE 2:29 PM
unicorns.azurewebsites.net
YelpforHelp
HOME
CRIMEMAP
CATEGORIES
SHARE YOUR EXPERIENCE
ABOUT US


AT&T LTE 2:29 PM
unicorns.azurewebsites.net
Say a word..Save a life!
Email: sankirthi@gmail.com
Crime: Select a crime
Date: Dec 2, 2015
Time:
Comments: * Comments...
Done
Select a crime
ASSAULT
DRUNKENNESS
KIDNAP
ROBBERY


●●●○○ AT&T LTE
2:30 PM
unicorns.azurewebsites.net
Yelp for Help
Say a word..Save a life!
Email:
sankirthi@gmail.com
Crime:
ASSAULT
Date:
Dec 2, 2015
Time:
2:29 PM
Comments:
Scary drugged goons
Rating:
Save