

Rayzit Web GUI EPL 371 Team 7

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CHARALAMBOUS CONSTANDINOS

Frameworks

HTML5

- HTML5 is the **latest** standard for HTML.
- The previous version of HTML, HTML 4.01, came in **1999**, and the internet has changed significantly since then.
- HTML5 was designed to **replace** both HTML 4, XHTML, and the HTML DOM Level 2.



HTML5

- It was specially designed to deliver rich content **without the need for additional plugins.**
- HTML5 is also **cross-platform.** It is designed to work whether you are using a PC, or a Tablet, a Smartphone, or a Smart TV.



Bootstrap

- Bootstrap is a free collection of tools for creating websites and web applications.
- It contains HTML and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions.
- It is the No.1 project on GitHub with 65,000+ stars and 23,800 forks (as of March 2014) and has been used by NASA and MSNBC, among many others.



Bootstrap Code

```
<select class="form-control" >
  <option value="one">100 km</option>
  <option value="two">200 km</option>
  <option value="three">300 km</option>
  <option value="four">400 km</option>
  <option value="five">500 km</option>
  <option value="six">600 km</option>
  <option value="seven">700 km</option>
  <option value="eight">800 km</option>
  <option value="nine">900 km</option>
  <option value="ten">1000 km</option>
  <option value="eleven">unlimited km</option>
</select>
```

maximum rayz sending distance

100 km

100 km

200 km

300 km

400 km

500 km

600 km

700 km

800 km

900 km

1000 km

unlimited km

```
<li><a href="rayzit.html" class="btn btn-large btn-inverse">
<span class="glyphicon glyphicon-home"></span></a></li>
```



Web SQL Database

- The Web SQL Database API isn't actually part of the HTML5 specification but it is a separate specification which introduces a set of APIs to manipulate client-side databases using SQL.
- Core Methods:
 1. `openDatabase`
 2. `transaction`
 3. `executeSql`



Web SQL Database Code

```
db.transaction(function (tx) {
  tx.executeSql('CREATE TABLE IF NOT EXISTS LATEST_RAYZ (id unique, rayzMessage, timestamp, rerayz)');
  var strJSON = httpGetLatest(userId);
  var array = eval("(function(){return " + strJSON + "})();");

  array=array.liveFeed;
  for (var i = 0; i < array.length; i++){
    var object = array[i];
    tx.executeSql('INSERT OR IGNORE INTO LATEST_RAYZ (id, rayzMessage, timestamp, rerayz) VALUES (?, ?, ?, ?)', [object.rayzId, object.rayz_message , object.timestamp, object.rerayz]);
  }
});
```

```
db.transaction(function (tx) {
  tx.executeSql('SELECT * FROM LATEST_RAYZ', [], function (tx, results) {
    var len = results.rows.length, i;
    //msg = "<p>Found rows: " + len + "</p>";
    //document.querySelector('#rayzs').innerHTML += msg;
    for (i = 0; i < len; i++){
      //do something
    }
  });
});
```


!Rayzit - Introduction

Rayzit is an **award-winning** crowd messaging technology that delivers your questions, inquiries and ideas to the closest users around, **regardless of how far** these users are and who they are.



!Rayzit - Features

- **Send Rayz** messages (text, audio, video or image) to the crowd around you.
- **Re-Rayz** a message you receive to spread the word about important things.
- **Star** a message to follow a conversation wherever you go.



!Rayzit - Privacy

No sign-up required, no profiles, no personal data collection. Remain **anonymous** and retain your privacy while having fun interacting with people around you.

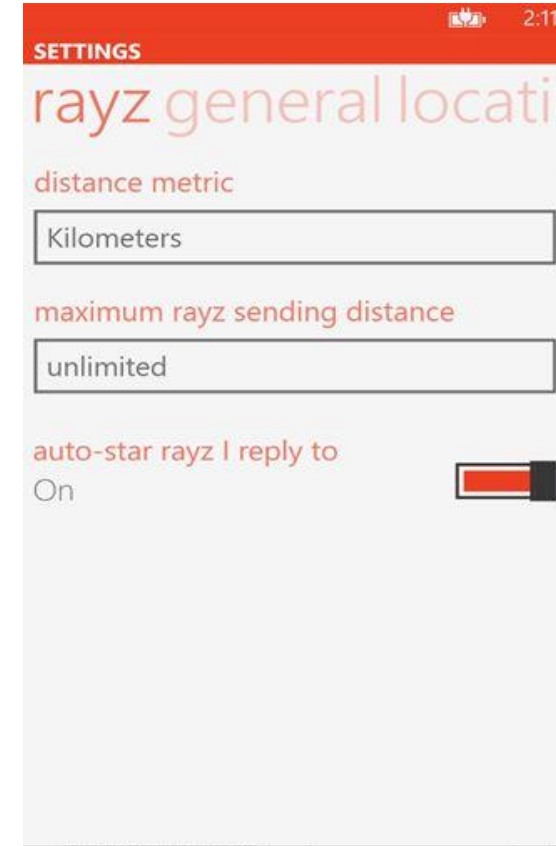
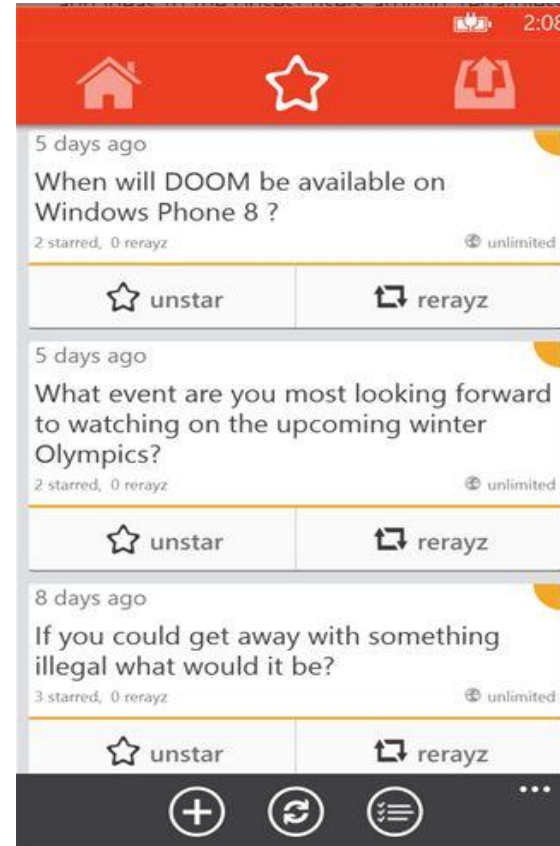
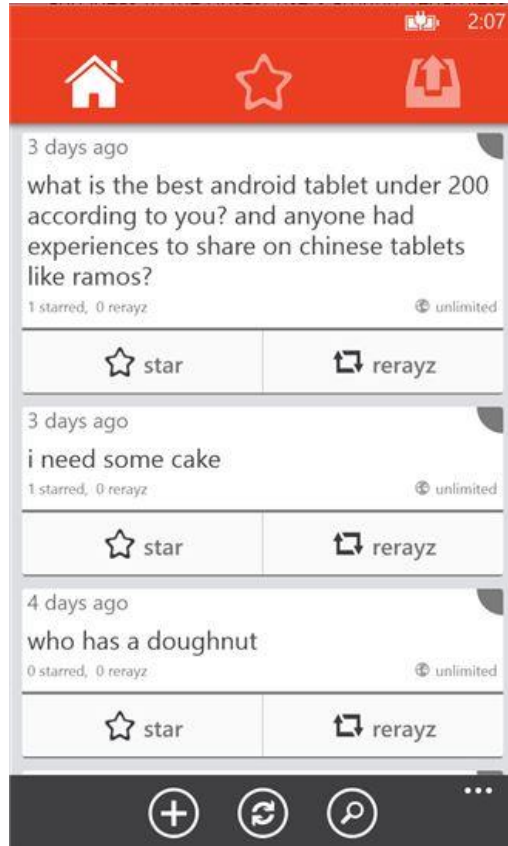


Implementation

Goals

- 1) Implement a Web GUI equivalent to the Phone application GUI
- 2) Allow the user to 'create account' and start using Rayzit
- 3) Create client-side Database so Web Rayzit can work offline

Implement a Web GUI equivalent to the Phone application GUI



Rayzit API Website



DOWNLOAD

DEVELOPERS

Global Parameters
These parameters will globally override method parameters if changed.

Parameter	Value	Type	Description
userid	<input type="text"/>	string	A valid user id.

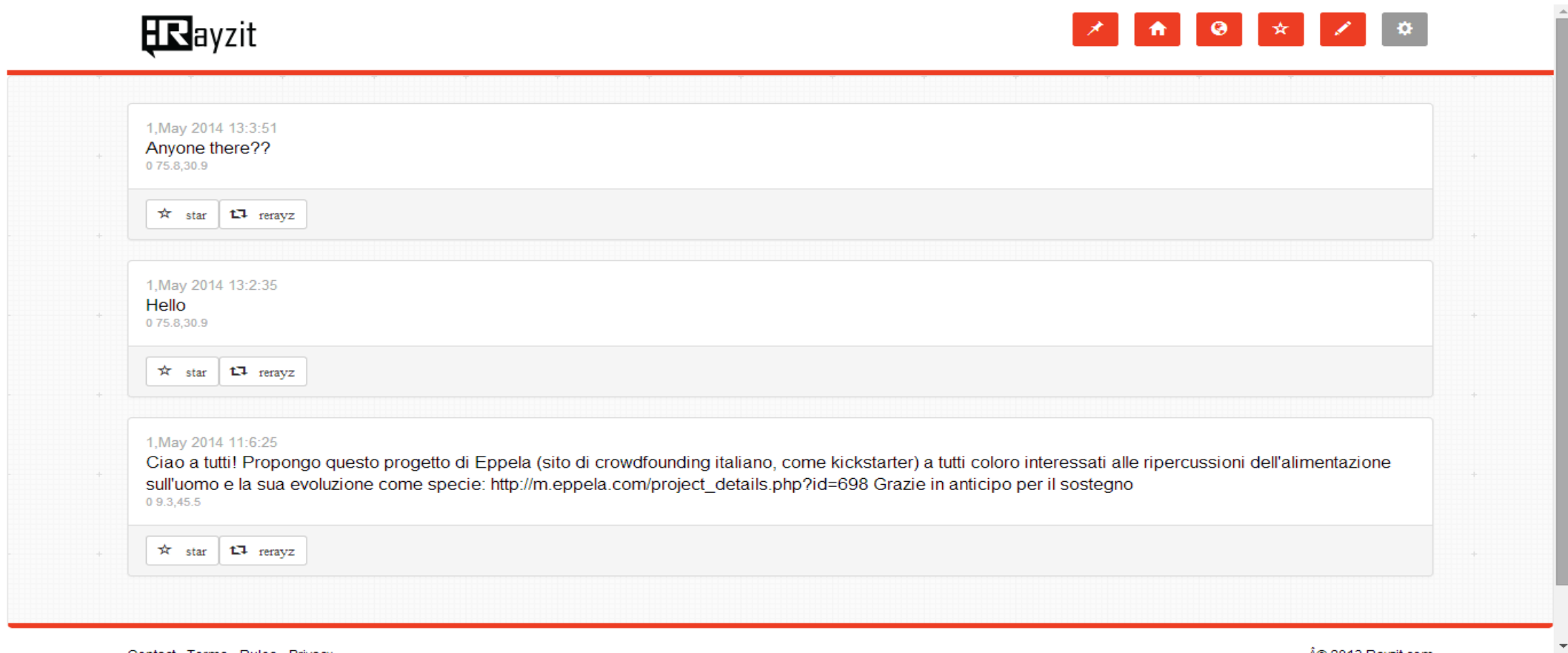
Users

These are user endpoints, with them you will be able to get user power and livefeed about given. Additionally you will be able to update user's location.
All requests require a valid user id.

[Show All](#)

POST	Update User Location	/user/update	This will update user's location
GET	Power	/user/:userid/power	This will get this user's power.
GET	User's Rayz	/user/:userid/myrayz/:page	This will get this user's rayz and return it as a list.
GET	User's Starred Rayz	/user/:userid/starred/:page	This will get this user's starred rayz and return it as a list.
GET	LiveFeed	/user/:userid/livefeed	This will get this user's live feed.

Rayzit Web GUI – Home Page



The screenshot displays the Rayzit web application interface. At the top left is the Rayzit logo. To the right is a navigation bar with icons for home, search, star, edit, and settings. The main content area features a list of messages on a light gray grid background. Each message card includes a timestamp, the message text, a small coordinate-like string, and two buttons: 'star' and 'rerayz'.

1,May 2014 13:3:51
Anyone there??
0 75.8,30.9

☆ star ↻ rerayz

1,May 2014 13:2:35
Hello
0 75.8,30.9

☆ star ↻ rerayz

1,May 2014 11:6:25
Ciao a tutti! Propongo questo progetto di Eppela (sito di crowdfunding italiano, come kickstarter) a tutti coloro interessati alle ripercussioni dell'alimentazione sull'uomo e la sua evoluzione come specie: http://m.eppela.com/project_details.php?id=698 Grazie in anticipo per il sostegno
0 9.3,45.5

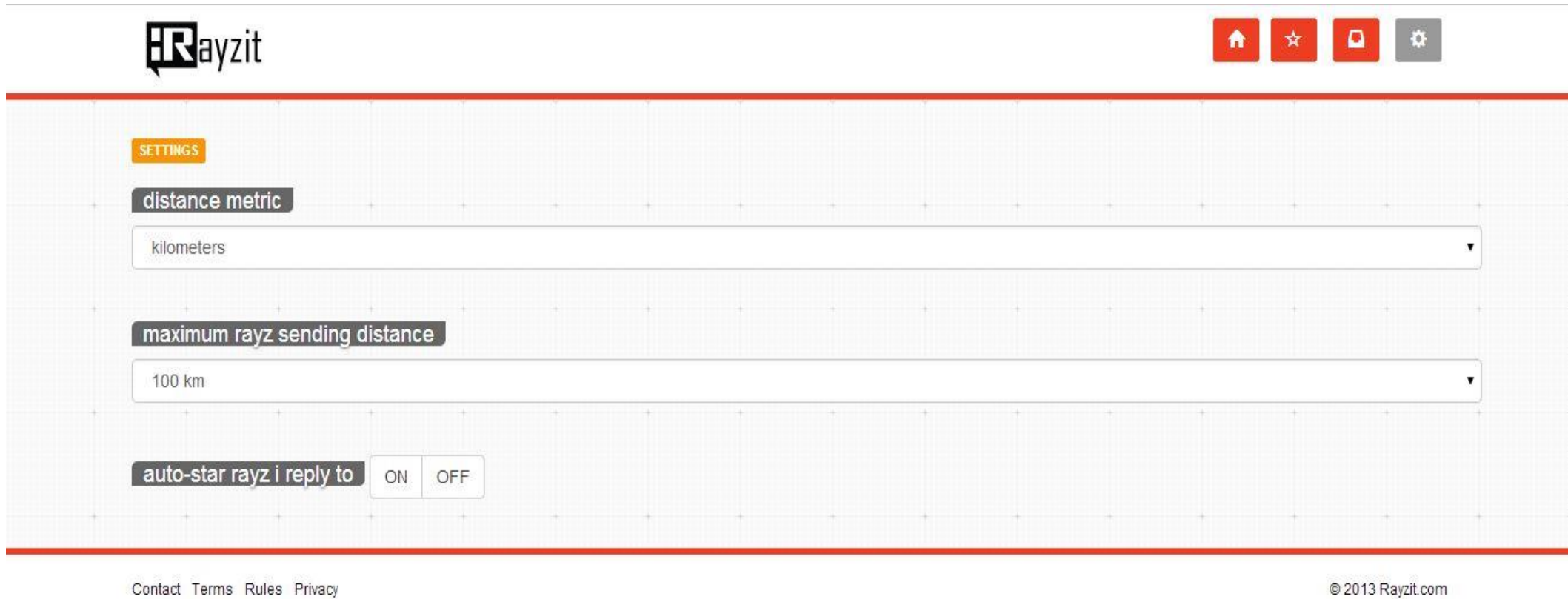
☆ star ↻ rerayz

Contact Terms Rules Privacy © 2013 Rayzit.com

Rayzit Web GUI – Same look and feel



Rayzit Web GUI – Settings Page



The screenshot shows the Rayzit web application's settings page. At the top left is the Rayzit logo. At the top right are four navigation icons: a home icon, a star icon, a document icon, and a gear icon. Below the navigation bar is a red horizontal line. The main content area has a light gray background with a grid pattern. It features a 'SETTINGS' tab in an orange box. There are three settings sections: 'distance metric' with a dropdown menu showing 'kilometers', 'maximum rayz sending distance' with a dropdown menu showing '100 km', and 'auto-star rayz i reply to' with two buttons labeled 'ON' and 'OFF'. At the bottom left are links for 'Contact', 'Terms', 'Rules', and 'Privacy'. At the bottom right is the copyright notice '© 2013 Rayzit.com'.

Rayzit

Home Star Document Settings

SETTINGS

distance metric

kilometers

maximum rayz sending distance

100 km

auto-star rayz i reply to ON OFF

Contact Terms Rules Privacy

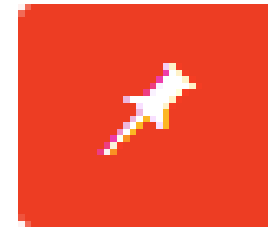
© 2013 Rayzit.com

Allow the user to 'create account' and start using Rayzit

BACK END

Parameter	Value	Type	Description
userid	<input type="text" value="required"/>	string	The ID of the User
appid	<input type="text" value="required"/>	string	The Application Id
latitude	<input type="text" value="required"/>	string	The latitude of the User
longitude	<input type="text" value="required"/>	string	The longitude of the User
accuracy	<input type="text" value="required"/>	string	Accuracy of User position

FRONT END



Create client-side Database so Web Rayzit can work offline

The screenshot shows a web browser displaying a chat application named "Rayzit". The chat interface shows two messages:

- Message 1: "1,May 2014 13:3:51", "Anyone there??", "0 75.8,30.9". Below the message are "star" and "rerayz" buttons.
- Message 2: "1,May 2014 13:2:35", "L...".

The Chrome DevTools console is open, showing the "Resources" tab. A local database named "GEO_RAYZ" is visible in the left sidebar. The main console area displays a table of data:

id	rayzMessage	timesta...	rerayz	coords
0	hi	138982...	0	30.6,37
1	m	138982...	0	30.6,37
2	hi	138958...	0	30.7,36.9
3	How does this work?	139377...	0	32.4,34.8
4	What is so distinct in this painting?	139406...	1	32.7,34.7
5	Anyone interested in tv series???	139421...	0	33.3,35.1
6	Post here a few pictures with Halloween costumes... Naou!!	139414...	2	33.3,35.1
7	Last Vegas seems like a great movie to watch!!	139357...	2	33.3,35.1
8	So.. What's going on?? So boring here already??	139196...	0	33.3,35.1
9	Hey	139175...	0	33.3,35.1
10	anyone knows a good movie?	138410...	0	33.3,35.1
11	Jiji	139860...	0	33.3,35.1
12	Me	139860...	0	33.3,35.1
13	I want to buy a bike. What is the best brand?	139455...	1	33.3,35.1
14	i am thinking of relocating. where should i move ?	138661...	3	33.3,35.1
15	Anyone for a drink and s... :)	139725...	1	33.4,35.2
16	anyone online???	138774...	0	33.4,35.1

Thank You for your attention

Q & A