BTW maps

ICSE '09 FINAL PRESENTATION

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TOPICS

- What is BTWmaps?
- Distributed environment
- About us
- Requirements
- Architecture design
- Results
WHAT IS BTWmaps?

Mario in Vancouver
DISTRIBUTED ENVIRONMENT

Department of Computer Science and Electronics, Mälardalen University, Sweden
Prof. Ivica Crnkovic

Faculty of Electrical Engineering and Computing, University of Zagreb, Croatia
Prof. Mario Zagar
Nikola Tankovic, Croatia
Project leader
System design, Developing, UI design

Sonja Milicic, Croatia
Developing, Design

Danijel Zovic, Croatia
Public relations, Testing

Gianluigi Ciambriello, Italy
Team leader
Design, Developing

Savino Ordine, Italy
Testing, Developing

Zafar Ahmad, Pakistan
Public relations, Testing
TEAM COMMUNICATION

[Image showing a diagram with countries and logos for Skype, Google Groups, and MSN]
INTERACTION WITH CUSTOMERS

Suggestions

New versions

BTW Account executive

Survey

Customers
What Mario wants?

BTW Team

- Mails
- Survey
- Personal interviews
- Online group discussions

Stakeholders
REQUIREMENTS

Routing
GoogleMAPS

Authenticity
Administrators
Moderators

Advices
Multimedia
Attributes

Customization
User profiles

Interaction
Comments
Flags

BTW system

PROJECT GOALS

Extensibility

Collect and provide information

Mesh up technologies
ARCHITECTURE OVERVIEW

Service Logic

- PHP Scripts
- HTML Forms
- AJAX Calls

GPS

symbian OS
TECHNOLOGIES

Server side
- PHP 5+
- PostgreSQL 7+

Client side
- JavaScript OOP
- GoogleMaps API
- Script.aculo.us framework (AJAX)
- JSON
- HTML (CSS) with Smarty engine
ARCHITECTURE - dataflow

HTML

Query()

Map shown

advice shown

Javascript

Fetch location()

route()

getAdvices()

List of advices

PHP

Advice->get()

DBMS
SCHEDULE

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<th>W1</th>
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</thead>
<tbody>
<tr>
<td>Project preparations</td>
<td>Requirements analysis</td>
<td>Object class design</td>
<td>Database design</td>
<td>HTML / CSS coding</td>
<td>HTML / CSS coding</td>
<td>Google map API wrapper</td>
<td>Users logic coding</td>
<td>Data exchange logic</td>
<td>Javascript I/O interfaces</td>
<td>Route and advice logic</td>
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[Diagram of project timeline with tasks mapped to weeks W1 to W11]
WORKING HOURS

Hours of work per week

Total working hours 599
RESULTS - performance

Complex ER Database → Simplified Relations

Stress test → Faster Advices
RESULTS – user interface

http://btw.rasip.fer.hr
Properties and categories selection

Point, line or polygon!

Multimedia advice entry
RESULTS – user interface continued
RESULTS - ADMINISTRATION
So how does this help Mario?