Principals of Software Engineering

COLOSOFT

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Restaurant finder (“OnTheGo”)

1. Executive Summary :
   * The project we have in mind is to create a website/mobile application dedicated to finding local restaurants in certain radius and cuisine.
   * This website/application will aim towards users having the ability to search for any restaurant in any given location/radius (focused on restaurants in the area where the person is located). Users will also have the ability to search for any local restaurant using a zip code or city within the Broward/Dade county South Florida region. Features as pictures of the restaurants and menus will also come into play making our website/application unique in one way or another.
2. Market Analysis:

* There currently is one known comprehensive website for finding and comparing local restaurants in a given location (urbanspoon.com/zomato.com). There are multiple websites for each category (Yelp, Opentable) but not a cross site comparison and rating website. A person may want to say Japanese cuisine, but would have to look at a multitude of websites to find the perfect restaurant because only a few shows menu, prices, and reservations at one website. Our site/app allows someone to compare places to eat by current location or geographic locale (zipcode or city) and available restaurants will show based on search categories such as cuisine, price and so on.

1. Features :

* Restaurants searchable with the use of current location/ZIP code/city
* Available restaurant details will be shown as easily recognizable icons (such as price icons, menu and reservations available)
* The search engine will be sorting the restaurants based on distance from the potential customer’s location, price or cuisine
* Possibility of making a reservation
* Available menu of the restaurant (including prices)
* Comments about each restaurant posted by visitors themselves (allowed only for registered users)
* Pictures of each restaurant (if possible from individual data lists)
* Individuals can upload pictures from their visit
* Individuals can rate the restaurant with a star system (1-5 stars)

1. Functional requirement:

* Search Function – user able to search by zip code, city, cuisine or price
* Upload Function – ability to upload user photographs of the restaurant
* Rating Function – Users can rate restaurant with a 1-5 star rating
* Main Page to show highest rated restaurants
* Comment Upload Function – User can upload comments and experiences of the restaurant visits.
* Administrative Functions – Monitor user uploads and edit or remove comments or pictures containing offensive material. Monitor site errors and functionality as possible and correct any deficiencies.

1. Non-Functional Requirements:

* Usability on Chrome v43, Internet Explorer v11, Firefox v34, and most of mobile devices (iOS & Android base)
* Accuracy and Precision – Data is parsed from other public sites. Data is also provided by public reviews and not subject to verification. Some data is retrieved by a search bot and parsed from area websites, where some data has been manually entered into the database either by the public or by the development team.
* Platform constraints - use on the FAU lamp server, error files are difficult to locate in order to troubleshoot scripting and other site issues.
* Security – Site is accessed by user login
* Data Constraints – due to project scope time limitations data will be limited to restaurants in Broward and Palm Beach Counties.
* Legal – all data is parsed from other public websites with links to said sites. All data used is assumed to be public domain.

1. System Development Infrastruture

* Products used; LAMP
* Languages: PHP, HTML, mysql, javascript, css
* Systems: LAMP
* core  APIs: LAMP, SPRY, css
* Browsers Supported: Chrome, Internet Explorer, Firefox, Safari

1. Team’s contributors:

* Alexander Sanchez – S.C.R.U.M. Master.
* Christian Hinostroza – Product Owner.
* Jozef Janikovic – Planning and Development Team.
* Spencer Reyka – Product Development-Coding and Software Development.

1. Deliverables:

* Story based Use Cases due: 7/17/2015
* Use Cases developed in Magic Draw 7/17/2015
* Layout and general design created in Balsamiq 7/17/2015
* Live site available in general form with some working features 7/24/2015
* Live working site with all features working 7/31/15

1. Glossary

* **Development Team** is responsible for delivering potentially shippable increments (PSIs) of product at the end of each Sprint (the Sprint Goal). A Team is made up of 3–9 individuals with cross-functional skills who do the actual work (analyses, design, develop, test, technical communication, document, etc.). The Development Team in Scrum is self-organizing, even though there may be some level of interface with project management offices (PMOs).
* **Product Owner** represents the stakeholders and is the voice of the customer. He or she is accountable for ensuring that the team delivers value to the business. The Product Owner writes (or has the team write) customer-centric items (typically user stories), ranks and prioritizes them, and adds them to the product backlog. Scrum teams should have one Product Owner, and while they may also be a member of the development team, this role should not be combined with that of the Scrum Master.
* **SCRUM** - is an iterative and incremental agile software development framework for managing product development. It defines "a flexible, holistic product development strategy where a development team works as a unit to reach a common goal", challenges assumptions of the "traditional, sequential approach" to product development, and enables teams to self-organize by encouraging physical co-location or close online collaboration of all team members, as well as daily face-to-face communication among all team members and disciplines in the project.
* **Scrum Master**, who is accountable for removing impediments to the ability of the team to deliver the product goals and deliverables. The Scrum Master is not a traditional team lead or project manager, but acts as a buffer between the team and any distracting influences. The Scrum Master ensures that the Scrum process is used as intended. The Scrum Master is the enforcer of the rules of Scrum, often chairs key meetings, and challenges the team to improve. The role has also been referred to as a*servant-leader* to reinforce these dual perspectives.