**ICS261: SSAD & Project**

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| --- | --- |
| **Team Number** | *19* |
| **Project Title** | *The Surrogate City Finder Tool* |
| **Document** | *Project Plan Document* |
| **Creation Date** | *31st August 2014* |
| **Created By** | *Team Members* |
| **Client** | *Dr. Vishal Garg* |

# **Brief problem statement**

* Energyplus weather data files (.epw) contain exhaustive weather data for a city which is utilised in simulations of the weather of a city for planning constructions and building models. Currently these files exist only for some cities of the world and (67 in India, to be precise).
* To facilitate the application of this model for the cities for whom weather data files have not yet been developed, we will make the Surrogate City Finder Tool which finds weather data files of those cities around the world whose weather is the closest match to the city in question.
* The matching is done on the basis of parameters which induce similar weather conditions like Altitude , Latitude and temperature profiles throughout the year.
* We will be using Ruby on Rails web framework to develop a deployable web application and HTML, CSS and Java scripting to provide a professional look to our WebApp.

# **Team Members**

1. Siddharth Bhatore

2. Dhruva Das

3. Ayush Tripathi

4. Akanksha Srivastava

5. Arushi Vashist

# **Team Communication**

Team communicates mainly through **bitbucket issue tracker, social media, emails** and mobile phone. All the meeting schedules and other plans are discussed via these. We have meetings at least twice a week.

# **Development Environment**

Tools that will be used during the development of the project:

1. Programming language:, Javascript, Ruby, Python

2. Web Framework: Ruby on Rails

**Documentation Tools**

1. Moqups

**Collaboration Tools**

1. Version Control: Git

2. Google Docs

# **Milestone Schedule**

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| --- | --- | --- | --- |
| **Milestone** | **Due Date**  **(dd/mm/yy)** | **Release** | **Delieverable** |
| Create Draft Requirements | 13/09/14 | R1 | No |
| Code Complete | 30/09/14 | R1 | No |
| Testing Complete | 05/10/14 | R1 | Yes |
| Create Draft Requirements | 11/10/14 | R2 | No |
| Code Complete | 05/11/14 | R2 | No |
| Testing Complete | 13/11/14 | R2 | Yes |
| Create Draft Requirements |  | R3 | No |
| Code Complete |  | R3 | No |
| Testing Complete |  | R3 | Yes |

**Release 1:**

--Basic outlay and inteface of the app.

--Search cities based on Latitude difference given as input, with reference to a particular city.

**Release 2:**

--All the search functions(Altitude, Max Temp, Min Temp, Humidity) implemented completely.

**Release 3:**

-- Graph Matching of monthly/hourly temperature profiles of the cities.