**Team B - Ekathra**

# PROJECT MANAGEMENT PLAN

**Project Name: Traffic Modelling System**

**Team Name: Ekathra Prepared date: 10/07/2016**

**Project Overview:**

The traffic modeling system is a simulation system through which different types of road would be attached to simulate the behavior of traffic. There are several components like roundabout, 2-way road, 4-way, signals, and T-junction so that they would act as network of roads. To start the simulation, user need to input some parameters such as: number of cars per minute, reaction rate.

**Project Deliverables:**

We need to deliver a working web based applications meeting the requirements specifications and functionality of the client.

**Client Name:**​ Dr. Michael Oudshoorn

**Project Organization:**

**Organizational Structure:** ​We are using the functional structure like everyone will be reporting to their supervisor respectively.

**Organizational boundaries and interfaces:** ​Each task supervision is assigned to a member in the team as their responsibility to make them active and perform leadership.

**Project responsibilities:**

* Each and every deliverable of a project should be developed meeting all the time, scope and cost constraints along with the procedures of the organization.
* All the members should always be supportive for the entire team by providing the required resources in the correct time.
* All the members should always be interactive with all the team members and make sure if the product can be delivered in time to the customer.

**Managerial process:**

* It is very important to know about the management objectives like goal of the top management, priorities of the project and know about the assumptions.
* The project should be monitored to handle the changes, the project should be reviewed on a weekly basis and deliverable should be formally accepted by the sponsor.

**Technical Processes:**

* This deals with the tools and techniques required to do the project. Each organization will have their own tools for developing documents so we need to coordinate and should know what tools and processes to be followed while doing the project.
* Here we are using tools Eclipse, MS office and NetBeans.

**Budget Allocation:**

We are measuring the budget in terms of time spent on the project. Each person will spend about 2 hours each day in weekdays and in weekends we will have team meetings of duration 2 hours. We will be attending the client meeting of 1 hour in a particular week which makes a total of 15 hours. For each person

**How we calculated hours:** Our estimation for this project would 8000 approx lines of code. We are considering 8000 lines of code through some expert reviews. We have discussed lines of code with some employees and came to get this figure through them.

Avg. person writes 115 lines of code per week

Therefore a person requires 10 hours of work per week and 5 hours of meeting. So the total would be 15 hours of work per week.

Weekdays: 5 X 2 = 10

Weekend team meetings: 2 X 2 = 4

Client meeting: 1 X 1 = 1

Total: 15 hours

So we are spending about 15 hours per person per week which makes a total of 15X7 = 105 hours per week per team. So the total budget of the project is 85X24 = 2520 (26 is the total number of weeks in both GDP 1 and GDP 2).

Per week per person: 15 X 1 = 15

Per week per team: 15 X 7 = 105

Total hours per team: 85 X 26 = 2730 hours.

Here 26 is the total number of weeks the project is going to take.

**Schedule:**

The project started on 09/01/16 and it will be completed by 04/10/17 and detailed information of the schedule will be in schedule management plan.

**Roles and Responsibilities of the each member in the team:**

| **S.N o** | **Name** | **Role** | **Responsibilities** |
| --- | --- | --- | --- |
| 1 | Rupanandha Moori | Primary Contact | He is the primary contact with client. He will represent the whole team and communicates with client regarding project requirements, progression, changes and completion. |
| 2 | Manikanta Nomula | Communications  & Documentation  Management | He is responsible to maintain communication and documentation management and it includes updating all changes and tracking project progression in different versions. |
| 3 | Rama Naveen Kommuri | Quality & Testing  Management | He is responsible to maintain quality throughout the SDLC process and to deliver effective output on time. To achieve the qualitative deliverables, testing plays a vital role. He will be responsible to test each module in the project. |
| 4 | Ashwini  Cherukuri | Data Management | She will take care of the collecting, storing and managing data in database and connecting data with front end system to update data which is entered by client. She would be responsible for managing data for our project. Including database connectivity, database designing, data mining etc. |
| 5 | Vamsy Chowdary Bobba | Issues  Management | He would be responsible to track all the issues in the project duration which may relate to internal staff and make sure to work the project as smooth. |
| 6 | Sahil  Nokhwal | Requirements Management | He will gather requirements from client and handle the changes in requirements as per the progress of project. He will also analyze, track and prioritizing the requirements. |
| 7 | Laxmi Sai Teja Naraharasetty | Client  Management | He takes the responsibility of meeting, getting requirements from client and also giving updates to the client. |

**Work Breakdown Structure:**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Task Mode | Task Name | Duration | Start | Finish | Predecessors |
| **Manually Scheduled** | **1.0  Architecture Design Phase** | **11 days** | **Mon 1/9/17** | **Mon 1/23/17** |  |
| Auto Scheduled | 1.1 Identify Architecture Objectives | 3 days | Mon 1/9/17 | Wed 1/11/17 |  |
| Auto Scheduled | 1.2 Key Scenarios. | 2 days | Thu 1/12/17 | Fri 1/13/17 | 2 |
| Auto Scheduled | 1.3 Application Overview. | 2 days | Mon 1/16/17 | Tue 1/17/17 | 3 |
| Auto Scheduled | 1.4 Key Issues | 2 days | Wed 1/18/17 | Thu 1/19/17 | 4 |
| Auto Scheduled | 1.5 Candidate Solutions. | 2 days | Fri 1/20/17 | Mon 1/23/17 | 5 |
| **Auto Scheduled** | **2.0 Car generation development** | **15 days** | **Tue 1/24/17** | **Mon 2/13/17** | **1** |
| Auto Scheduled | 2.1 Default values loading | 1 day | Tue 1/24/17 | Tue 1/24/17 |  |
| **Auto Scheduled** | 2.2 Car Properties | 8 days | Wed 1/25/17 | Fri 2/3/17 | **8** |
| Auto Scheduled | 2.2.1 Car Speeding | 2 days | Wed 1/25/17 | Thu 1/26/17 |  |
| Auto Scheduled | 2.2.2 Acceleration and deceleration | 2 days | Fri 1/27/17 | Mon 1/30/17 | 10 |
| Auto Scheduled | 2.2.3 Direction Selection | 2 days | Tue 1/31/17 | Wed 2/1/17 | 11 |
| Auto Scheduled | 2.2.4 Signaling | 2 days | Thu 2/2/17 | Fri 2/3/17 | 12 |
| Auto Scheduled | 2.3 Integration of Car Generator | 3 days | Mon 2/6/17 | Wed 2/8/17 | 9 |
| Auto Scheduled | 2.4 Module Testing | 3 days | Thu 2/9/17 | Mon 2/13/17 | 14 |
| Auto Scheduled | Milestone 1 | 0 days | Mon 2/13/17 | Mon 2/13/17 | 15 |
| **Auto Scheduled** | **3.0 Roads** | **15 days** | **Tue 2/14/17** | **Mon 3/6/17** | **7** |
| Auto Scheduled | 3.1 T Junction Generation | 3 days | Tue 2/14/17 | Thu 2/16/17 |  |
| Auto Scheduled | 3.2 Roundabouts Generation | 3 days | Fri 2/17/17 | Tue 2/21/17 | 18 |
| Auto Scheduled | 3.3 4-Stop Sign Road Generation | 3 days | Wed 2/22/17 | Fri 2/24/17 | 19 |
| Auto Scheduled | 3.4 2-Stop Sign Generation | 3 days | Mon 2/27/17 | Wed 3/1/17 | 20 |
| Auto Scheduled | 3.5 Module Testing | 3 days | Thu 3/2/17 | Mon 3/6/17 | 21 |
| **Auto Scheduled** | **4.0 Car Garbage Selection** | **8 days** | **Tue 3/7/17** | **Thu 3/16/17** | **17** |
| Auto Scheduled | 4.1 Development | 5 days | Tue 3/7/17 | Mon 3/13/17 |  |
| Auto Scheduled | 4.2 Module Testing | 3 days | Tue 3/14/17 | Thu 3/16/17 | 24 |
| Auto Scheduled | Milestone 2 | 0 days | Thu 3/16/17 | Thu 3/16/17 | 25 |
| **Auto Scheduled** | **5.0 Roads Integration** | **13 days** | **Fri 3/17/17** | **Tue 4/4/17** | **23** |
| Auto Scheduled | 5.1 Development | 5 days | Fri 3/17/17 | Thu 3/23/17 |  |
| Auto Scheduled | 5.2 Integration | 4 days | Fri 3/24/17 | Wed 3/29/17 | 28 |
| Auto Scheduled | 5.3 Testing | 4 days | Thu 3/30/17 | Tue 4/4/17 | 29 |
| **Auto Scheduled** | **6.0 User testing** | **4 days** | **Wed 4/5/17** | **Mon 4/10/17** | **27** |
| Auto Scheduled | 6.1 Client presentation | 1 day | Wed 4/5/17 | Wed 4/5/17 |  |
| Auto Scheduled | 6.2 Feedback collection | 1 day | Thu 4/6/17 | Thu 4/6/17 | 32 |
| Auto Scheduled | 6.3 Improvements | 1 day | Fri 4/7/17 | Fri 4/7/17 | 33 |
| Auto Scheduled | 6.4 submission | 1 day | Mon 4/10/17 | Mon 4/10/17 | 34 |

**Gantt chart:**





