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| Weekly Status Report |
| On Project “Improving Bus Transportation Services in Indian Cities**”** |
|  |
| **4/5/2014** |

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| This document includes weekly report on Minutes of meeting and weekly status of tasks |

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# Weekly Status Report for the week ending on 24/1/2014

On 20th January 2014 we discussed about problem statement & the professor told us to find out the solution for that problem statement.

## Work done by all the members in this week:

**1. Brief summary of work done during the week (member wise).**

We expressed our views on that the problem. We opted for Android app and discussed with Professor.

**Soumit**  found out all the services (android application) which are available in Indian cities such as:

I) Estimated Time of Arrival (ETA)

Ii) Estimated Travel Time (ETT)

Iii) Route details

IV) Track location of a bus

V) Trip planner

vi) Locate bus stop etc.

**Charan** drawing his personal experiences listed the advantages of having an updated and real time information of public transportation system in India. .The problem with present apps Public transport system is information not being updated on the regular basis or not real time. He also explored on what are the existing technologies in other countries for bus transportation system.

**Dnyanesh** found out a couple of sources of information about the existing BMTC system.

i) **http://www.mybmtc.com**

ii) **http://bmtcroutes.in**

**Balmukund** suggested that we can make a Dynamic Bus Tracking application for mobile which uses GPS devices to report real time bus location. With the help of this application we can estimate the exact arrival of bus at particular stop.

2. **Time spent in the project during the week - in hours (member wise).**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Members | Task | Hours spent | Status | File |
| Soumit Das | Survey on existing apps on Transportation system in India | 3 | Completed |  |
| Charan Shetty | Survey on existing Technologies on Transportation system in other countries | 3 | Completed |  |
| Joshi Dnyanesh Madhav | Exploring data available on BMTC services | 3 | Completed |  |
| Balmukund Agarwal | Dynamic bus tracking in provide real time information | 3 | Completed |  |

3. **Plan for next week (member wise):**  Need to come up with a plan on Survey of “Bus Transportation System” specifically in Bangalore . The Survey questions will be discussed in next meet.

4. **Total time spent till now (in hours): 12 hours.**

5. **Estimated total remaining time (in hours): 468 hours.**

6. **Status with respect to the project management report (ahead of schedule/as-per-plan/slippage) and reasons, if delayed**:

7. **Problems faced related to the project, if any**:

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# Weekly Status Report for the week ending on 7/2/2014

**2nd meeting: 3rd February 2014:**

After considering the feasibility in doing a survey, we decided to do survey for at least 60 respondents.

## Work done by all the members in this week:

**1. Brief summary of work done during the week (member wise)**

Following questions were formulated for initial draft.

**Soumit Das:**

1.Are you a regular traveler on a fixed route?

2. Are you happy with the bus service that you receive? Rate it on a scale of 1 (worst) through 5 (best).

3. Do buses come as per schedule to your starting bus stop?

**Charan Shetty :**

1. Do you get a seat in the bus?
2. Do you have a phone? If yes, what type of phone?
   * Feature phone (running some proprietary OS; Java apps can probably run)
   * Android phone (Android OS)
   * Windows phone (Windows Phone OS)
   * iPhone (iOS)
3. If you have a phone, do you use it to access the Internet?

**Joshi Dnyanesh Madhav:**

Do you have access to a PC connected to the Internet?

1. If you go from place A to place B, such that both places are not connected by a single bus and you've never travelled from A to B before, what problems do you face and how do you tackle them?
2. Would you be interested to know the real-time positions of the buses you're interested in and their ETA at the bus stop of your choice?

**Balmukund Agrawal:**

1. Would you be interested to know the real-time number of vacant seats in these buses?
2. Do you think traffic related information would help you plan your trip? If yes, what information would you like and by what means?
3. Given the present infrastructure, what sort of information would you like about the bus transportation system?

The draft was later forwarded to Professor.

2. **Time spent in the project during the week - in hours (member wise).**

|  |  |  |  |
| --- | --- | --- | --- |
| Members | Task | Hours spent | Status |
| Soumit Das | Drafting survey questionnaire | 2 | In Progress |
| Charan Shetty | Drafting survey questionnaire | 2 | In Progress |
| Joshi Dnyanesh Madhav | Drafting survey questionnaire | 2 | In Progress |
| Balmukund Agarwal | Drafting survey questionnaire | 2 | In Progress |

**Initial Draft**



3. **Plan for next week (member wise):** We need to relook on the survey draft and come up with some more specific questions .we have to confirm our geographical plan for the survey and send the details of our survey plan to madam.

4. **Total time spent till now (in hours): 20 hours.**

5. **Estimated total remaining time (in hours): 460 hours.**

6. **Status with respect to the project management report (ahead of schedule/as-per-plan/slippage) and reasons, if delayed**:

7. **Problems faced related to the project, if any**:

# Weekly Status Report for the week ending on 14/2/2014

**3rd meeting: 10th February 2014:**

Discuss on the survey questions as per comments. Professor asked us to do survey on other places to get diverse set of respondents and also discussed on the geographical plan for our survey.

## Work done by all the members in this week:

**1. Brief summary of work done during the week (member wise).**

In this week we finalized our geographical plan and forwarded to Professor.

|  |  |
| --- | --- |
| Name | Places to do survey |
| Soumit Das | SilkBoard, BTM Layout/Jayanagara |
| Charan Shetty | Majestic, Santinagar. |
| Joshi Dnyanesh Madhav | Majestic, Santinagar. |
| Balmukund Agrawal | SilkBoard, BTM Layout/Jayanagara. |

Following document has the review comments given by the Professor on survey questionnaire



Following document is the 2nd version of Survey questionnaire



Following document has the review comments given by the Professor on 2nd version of survey questionnaire



Final version of the survey questionnaire



2. **Time spent in the project during the week - in hours (member wise).**

|  |  |  |  |
| --- | --- | --- | --- |
| Members | Task | Hours spent | Status |
| Soumit Das | Drafting survey questionnaire as per review comments | 2 | Completed |
| Charan Shetty | Drafting survey questionnaire as per review comments | 2 | Completed |
| Joshi Dnyanesh Madhav | Drafting survey questionnaire as per review comments | 2 | Completed |
| Balmukund Agarwal | Drafting survey questionnaire as per review comments | 2 | Completed |

3. **Plan for next week (member wise):** Professor agreed to do the survey after our exams and vacation in March. And will let us know her detailed comments in the meantime and we can discuss it again in the class on 10th March. Also a literature survey on Papers forwarded had to be done.

4. **Total time spent till now (in hours): 28 hours.**

5. **Estimated total remaining time (in hours): 452 hours.**

6. **Status with respect to the project management report (ahead of schedule/as-per-plan/slippage) and reasons, if delayed**:

7. **Problems faced related to the project, if any**:

# Weekly Status Report for the week ending on 28/2/2014

**4th meeting: 24th February 2014:**

Discuss on final draft of survey questions & finalize it. Make some final changes & then send it to the professor on 5th march 2014.

## Work done by all the members in this week:

**1. Brief summary of work done during the week (member wise).**

|  |  |  |  |
| --- | --- | --- | --- |
| Members | Task(surveying at different places) | Hours spent | Status |
| Soumit Das | SilkBoard, BTM Layout/Jayanagara | 6 | In progress |
| Charan Shetty | Majestic, Santinagar | 6 | In Progress |
| Joshi Dnyanesh Madhav | Majestic, Santinagar | 6 | In Progress |
| Balmukund Agarwal | SilkBoard, BTM Layout/Jayanagara | 6 | In Progress |

3. **Plan for next week (member wise):** After collecting all these data from our survey we will analyze those data. Then we will find out the percentage of people opted for different services and finally conclude from our survey.

4. **Total time spent till now (in hours): 52 hours.**

5. **Estimated total remaining time (in hours): 428 hours.**

6. **Status with respect to the project management report (ahead of schedule/as-per-plan/slippage) and reasons, if delayed**:

7. **Problems faced related to the project, if any**: We faced problems at the time of survey.

# Weekly Status Report for the week ending on 28/3/2014

**5th meeting: 24th March 2014:**

Explain our full survey report with all statistics.

Complete survey report analysis:

## Work done by all the members in this week:

**1. Brief summary of work done during the week (member wise).**

**Survey status as on March 10th 2014.**

|  |  |  |  |
| --- | --- | --- | --- |
| Members | Task(surveying at different places) | Hours spent | Status |
| Soumit Das | Marathahalli | 3 | Completed |
| Charan Shetty | Marathahalli | 3 | Completed |
| Joshi Dnyanesh Madhav | Silk Board | 3 | Completed |
| Balmukund Agarwal | Marathahalli | 3 | Completed |

**Survey status as on March 17th 2014.**

|  |  |  |  |
| --- | --- | --- | --- |
| Members | Task(surveying at different places) | Hours spent | Status |
| Soumit Das | SilkBoard, BTM Layout/Jayanagara | 3 | Completed |
| Charan Shetty | Majestic, Santinagar, | 3 | Completed |
| Joshi Dnyanesh Madhav | Electronic city, Majestic Shantinagar | 3 | Completed |
| Balmukund Agarwal | SilkBoard, BTM Layout/Jayanagara, | 3 | Completed |

**Soumit** analyzed the “Connecting service information” data and “mode of access to information” data, following are the statistics of these two percent of people opted for these two):

**Connecting service information:** 33%

**Mode of access to information**

• Mobile phone: 77%

• Website: 21%

• Bus stop: 23%

Charan analyzed the diversity of data and classified as below

**Gender**

• Male: 75%

• Female: 25%

**Age (years)**

• < 23: 13%

• 23 – 48: 83%

• > 48: 4%

**Dnyanesh** analyzed the “Timing information” data and “The Phone feature to use if the mode is mobile phone” data following are the statistics of these two percent of people opted for these two):

Timing information: 81%

The phone feature to use if the mode is mobile phone

• SMS: 30%

• Application: 95%

• Phone call: 5%

**Balmukund** analyzed the “Real-time bus location information” data and “Traffic information” data. Following are the statistics of these two (percentage of people opted for these two):

Real-time bus location information: 79%

Traffic information: 44%

2. **Time spent in the project during the week - in hours (member wise).**

|  |  |  |  |
| --- | --- | --- | --- |
| Members | Task | Hours spent | Status |
| Soumit Das | Analysis of survey data | 3 | Completed |
| Charan Shetty | Analysis and presentation of survey data | 3 | Completed |
| Joshi Dnyanesh Madhav | Analysis and presentation of survey data | 3 | Completed |
| Balmukund Agarwal | Analysis of survey data | 3 | Completed |

Following are the slides of the presentation on survey data analysis



3. **Plan for next week (member wise):** Professor sent few more documents/papers on transportation system.so after studying all these 4 papers we have to make a summery document of 300 words for each and every paper. In the next week we finalize the android applications which we are going to develop.

4. **Total time spent till now (in hours): 92 hours.**

5. **Estimated total remaining time (in hours): 388 hours.**

6. **Status with respect to the project management report (ahead of schedule/as-per-plan/slippage) and reasons, if delayed**:

7. **Problems faced related to the project, if any**:

We faced following problems when we went on the survey on 6th and 8th of March.   
Initially we planned to do the survey as a group in Silkboard but didn't work well as we thought.   
People were reluctant to answer our questions; Language barrier was indeed a problem.   
One reason being that the survey questionnaire would take on an average of 4 to 5 mins (at least  1 min to introduce ourselves and why we were doing) and they will leave when we are halfway through.   
Also the response from the people was demotivating and not a good experience which we kind of expected.   
We then thought may be approaching in groups was not a good idea, so we tried surveying individually which didn't help much.   
   
Later we planned to take bus and do the survey while travelling.We took a bus from SilkBoard towards Marathahalli and change buses once we are done surveying couple of people in that bus .This was effective in a way that we could take suggestions completely from a person, but at the same time it was taking too much time, like we had to look for half empty buses, many of us don't know the bus routes and it was tiresome.   
I also went to Majestic (for some other reason) thought i would get more responses but even there people were reluctant to answer (many were in a hurry and i also went at around 6:00 pm on Friday which was odd time)   
   
We tried surveying people from all different age groups but we are not sure we can get diverse response.

# Weekly Status Report for the week ending on 4/4/2014

**6th meeting: 2nd April 2014:**

Documentation on Projects and review.

## Work done by all the members in this week:

**1. Brief summary of work done during the week (member wise).**

**Soumit:** prepared weekly status report

**Charan**  is working on the project management document

**Joshi Dnyanesh Madhav:** Prepared the project proposal document

**Balmukund Agrawal:** Prepared the timesheet

2. **Time spent in the project during the week - in hours (member wise).**

|  |  |  |  |
| --- | --- | --- | --- |
| Members | Task | Hours spent | Status |
| Soumit Das | weekly status report | 3 | In progress |
| Charan Shetty | Project management document | 3 | In progress |
| Joshi Dnyanesh Madhav | Project proposal document | 3 | Completed |
| Balmukund Agarwal | Timesheet | 3 | In progress |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Members | Task(Literature survey on) | Hours spent | Status | File path |
| Soumit Das | “OneBusAway:” | 4 | Completed | <https://github.com/charanshetty/SEProject/tree/master/Literature%20survey> |
| Charan Shetty | Review of Urban Transportation | 4 | Completed | <https://github.com/charanshetty/SEProject/tree/master/Literature%20survey> |
| Joshi Dnyanesh Madhav | Summary - crisis of public transport in India | 4 | Completed | <https://github.com/charanshetty/SEProject/tree/master/Literature%20survey> |
| Balmukund Agarwal | Context Aware Navigation System for Using Public Transport on Smartphone | 4 | Completed | <https://github.com/charanshetty/SEProject/tree/master/Literature%20survey> |

Following are the timesheet and project proposal document.





3. **Plan for next week (member wise):** Preparing the project management document and the version 2 of the proposal document which will include a proposal for a text based interface.

4. **Total time spent till now (in hours): 120 hours.**

5. **Estimated total remaining time (in hours): 360 hours.**

6. **Status with respect to the project management report (ahead of schedule/as-per-plan/slippage) and reasons, if delayed**:

7. **Problems faced related to the project, if any**: