

# **Improving Bus Transportation Services in Indian Cities**

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## **Project Management Documentation**

Version 1.0 | 07-April-2014

## Revision History

The latest version should be on top

Version No	Change Description	Date	Author	Reviewer
1.0	Initial Draft	29-March-2014	Charan Shetty	Joshi Dnyanesh Madhav

## References

The reader should read this document in conjunction with the following documents

Sl.No	Document Name	Version No	Document Location
01	Project Proposal Document	1.0	

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## **Purpose of the Document**

This document captures the major milestones to be achieved in the course of the project. It will serve as guiding document to follow each of the project activities as per plan and also to assess progress of the project as per the set objectives.

## **Scope of the Document**

This document includes all the important aspects of the project including the context and objectives of the project, members involved in the project, the activities that have been planned in the project the estimated time for the completion of the activities as well as the entire project. It also mentions what testing strategy will be used, the roles that the team members will be playing in the activities mentioned.

This document does not provide any details about the architecture of the project, the internal working of the activities.

## **Project Abstract**

In most urban centers in India, public transportation poses a considerable discomfort not only for daily commuters but also for concerned administrative authorities. Although most of the major cities such as Delhi, Chennai, Bangalore, Kolkata and others run an expanded system of public bus transportation system within the cities, predictability of such services requires much improvement.

This project aims at developing an Internet application that will provide

- timetable of the public bus transportation system to the users
- number of buses available in a particular route from a particular station
- time of the next bus arriving in particular routes at a particular stop
- duration the user's destination will take to reach
- updated information on any disruption in the schedule
- real-time location of buses on routes of interest
- traffic updates

## Project Details

This section provides the details of the team members of the project.

### Professor:

1. Prof. Bidisha Chaudhuri, International Institute of Information Technology B'lore

### Team Members:

1.	Charan Shetty	International Institute Of Information Technology B'lore
2.	Joshi Dnyanesh Madhav	International Institute Of Information Technology B'lore
3.	Soumit Das	International Institute Of Information Technology B'lore
4.	Balmukund Agrawal	International Institute Of Information Technology B'lore

## Activity list

Sl.No.	Activity	Sub Activity	Estimated start date	Estimated end date
1	Formulation of the problem	Reading relevant background information	04/02/2014	25/03/2014
		Understanding and documenting the requirements	25/03/2014	02/04/2014
		Discussions	02/04/2014	07/04/2014
2	Designing a solution, documentation	-	08/04/2014	30/04/2014
3	Relevant learning	Android App development	10/05/2014	20/05/2014
		Third party APIs for sending and receiving SMS	10/05/2014	20/05/2014
		Using Google maps API	10/05/2014	20/05/2014
4	Coding, unit testing and Integration		21/05/2014	12/06/2014
5	System Testing		13/06/2014	16/06/2014
6	Documentation		17/06/2014	22/06/2014
7	Reviews		23/06/2014	25/06/2014
8	Re-work and de-bugging		26/06/2014	30/06/2014

## Project plan

The project aims at two important aspects .i.e. to provide a first-hand experience of the principles and techniques required to become an effective member of a software development team .This project involves developing an application for providing developing a mobileapp which provides real-time information about bus schedule to users.

Activity number	Description
1.1	Reading articles, journals on bus transportation system across the world. Doing a user survey to get passengers' suggestions on bus transportation system in

	Bangalore.
1.2	Analyzing the survey results for finalizing the functional requirements
2	Preparing Project proposal document .Project management, Timesheet documents on biweekly basis and Weekly status reports weekly. Preparing SRS TD, and test case scenarios.
3	Learning Android App development, client (Android Phone)-server connectivity.
4	Each Team member will work on 2-3 use cases and do unit testing and Integration
5	Team members will test entire application as a black box.
6	Documenting Project report, Test execution results.
7	Getting Software application reviewed by Supervisor.
8	Based on review , If any

## Testing Strategy

The test cases for all the activities in a particular would be present in an Excel document. Each test case will be identified by a unique identifier, Test-Case ID. Each of the following mentioned testing activity would be carried out.

Test Activity (No.of hours)	Responsible Person(s)	Estimated Time (person hours)	Path
Preparation of Test Cases	Team member	40	<a href="https://github.com/charanshetty/SEProject">https://github.com/charanshetty/SEProject</a>
Unit Testing	Team member	40	<a href="https://github.com/charanshetty/SEProject">https://github.com/charanshetty/SEProject</a>
Integration and system Testing	Entire team	90	<a href="https://github.com/charanshetty/SEProject">https://github.com/charanshetty/SEProject</a>

