**Required Elements:**

1. A project title and group name including group member names.
2. A project description: a detailed description of the system you plan to develop including development environments (language, platform, and so on).
3. A top level plain text document called README that lists the directory structure of your project directory.
4. A directory structure that includes areas for the project source code, planning documents, meeting minutes, and project reports (each team’s structure may vary slightly)
5. An initial set of meeting minutes (time, attendees, things discussed, and etc.).
6. An initial planning that lays out the big timeline for your project and expected milestones. Include Gantt and/or PERT charts where appropriate. This will be modified in later deliverables. At this point you do not have enough detail to develop a complete plan but you can do a high level planning exercise.
7. Risk management:

**Risk Management:** As a team, you should discuss and identify the top 5 risks for your project. You should develop a plan for (1) monitoring these risks (2) reevaluation of your risks as the semester progresses (3) contingency plans for these risks.

1. A report to your manager (me) that discusses your progress on this deliverable, the team structure you have chosen to use, the names of the team members and their roles, project repository check out and update policies, etc.
2. Member contribution table

|  |  |  |  |
| --- | --- | --- | --- |
| Member name | Contribution description | Overall Contribution (%) | Note  (if applicable) |
| Anurag Chitnis |  | 25% |  |
| Gil Wasserman |  | 25% |  |
| Satyanarayana Chivukula |  | 25% |  |
| Nitesh Kumar Sharma |  | 25% |  |

**NOTE**: Submit one document (e.g., deliverableI.doc) that contains items 1, 2, 5, 6, 7, 8, and 9.

Bus Tracking System

**Group Name:** Android Developers

**Group Members:**

* Anurag Chitnis
* Nitesh Kumar Sharma
* Satyanarayana Chivukula
* Gil Wasserman

**Project Description:**

Presently we have 9 buses running around the campus at University of North Texas. Additionally, we have e-ride service which runs at night. Although we have the schedule of all the buses given on the website of transportation at UNT, it is inconvenient to refer that all the time. During the night time when buses are unavailable we have UNT e-ride for our service However, we don’t know where it is in the campus when we need it and how much time it will take to reach us.

Considering these problems in mind, we came up with an idea to develop an android application for students which will display the current location of the buses and e-ride on the google map.

Programming language: Java, Android SDK, Rest API, XML, JSON

Development Environment: Android Studio, GitHub

We have integrated the GitHub repository in android studio so as to ease the process of version control system.

**Minutes of meeting (MOM):**

Minutes of meeting are written record of the meetings of a Team.

The minutes should contain mainly a record of what was done at the meeting, not what was said by the members

Format of our MOM is word document, which we upload in team repository.

These are informal notes that are instantly written record of discussions.

Occurs every Tuesday and Thursday from 10:40 AM to 11:30 AM in the class.

Every team member is required to attend all the minutes of meeting and in case anyone misses the class or MOM, they can login in to the GitHub to remain on the same page in case of any issues or difficulties attending class or MOM.

Every team member is responsible for creating the MOM and updating it on GitHub on every MOM basis.

Some of the discussions of initial MOM are presented below

* Things Discussed
  + 1. Project Requirements, feasibility, scope and technical requirements
    2. Responsibilities, contribution and workload for each team member
    3. Risk Management and contingency plans

Example of our structure/format of MOM.



**Project Schedule:**

We are using Gantt Charts and PERT charts as project control and tracking technique, we use this to track progress of development of our project BUS TRACKING SYSTEM.

Gantt charts show as critical project elements and helps us to understand which activities can be done in parallel.



PERT Charts which stands for Program Evaluation and Review Technique.

Pert charts shows the critical path for the project and any delay in any activity in the path causes a delay in the entire project, hence activities on critical path must be monitored closely.

Both Gantt and PERT chart allow manager to monitor and control project progress and detect deviations.

All the team members are clear about the requirements, scope and feasibility of the project and everyone is on same page.

We have discussed about the individual responsibilities and contribution of each team member to put in to achieve the expected results.

We all are clear about the high level design and coding required for the project. We have almost finalized the software required for the project and just need to test a high level integration of all the required software.

We have decide to use Junit testing for testing of our software product and as of now have decided to do it parallel while developing the code rather doing it at the end of the deliverable.

Hence you can see few of the activities of design, coding, integration and testing are overlapping in Gantt and PERT charts.