

Deliverable and Report 1

9/13/17

(1) Group: The4bits

Names:

Garrett Brumley

Peter Menchu

Joseph Vo

Nasser A

Project Title: What's There?

(2) Description:

Information site/app for cities and towns. This app is targeted towards people who like to travel, as well as residents of the city/town to get local information.

The app combines weather, local news, climate and geographical information. The app will also include systems of public transportation, if any, and events and tourist attractions to visit.

We plan to develop the site using html/css/c++, and an IDE such as Visual studio. We will find information such as weather and news through open source API's and RSS feed calls. Some information will be based on information from websites, such as public transportation schedules. Other parts of the website will be crowdsourced from the users, such as gas prices and events.

(5) Minutes:

8-31: Discussion: First discussion about project ideas. Were having difficulties coming up with app options due to little experience with applications of this scale. Came up with three ideas: local shop inventory app, music mixer app, and started thinking about a travel based app. Were unable to decide in this meeting, kept thinking over the weekend.

9-5: Discussion: Resumed discussion of project ideas. Abandoned the shopping and music app ideas, and discussed our thoughts for a travel/city info app and a traffic light controller for emergency vehicles. This discussion lasted the entire meeting, and we decided to keep thinking about which app would be best and decide next meeting.

9-7: Discussion: Decided we should go with the Travel/City info app. In this meeting we began discussing the features of the app and the possible risks.

Risks we discussed:

- Inexperience
- Schedule Conflicts
- Communication
- Technical problems/difficulties
- Overestimating/underestimating our abilities
- Poor project schedule management

Contingency ideas:

- Establish times that could work for meetings where everyone is free
- Develop a schedule based on class deliverables
- Hold regular meetings to make sure the schedule is followed
- Identify most difficult parts of project
- Manage those parts

App Features:

- Desktop or Android App in C++, undecided
- Weather from open sources
- Traffic
- Local News
- RSS Feeds
 - Austin
 - KVUE : <http://www.kvue.com/about/rss>
 - Austin Chronicle: <https://www.austinchronicle.com/rss/>
 - Dallas
 - NBC5 Dallas-Fort Worth <http://www.nbcdfw.com/rss/>
- Gas Prices
- Events
- Tourist Attractions/Geography
- Public Transportation
- Search feature for Cities/Towns
- Demo Version will exhibit a couple of cities/towns, released version would ideally include as many places as possible

9-12: Discussion: Continued discussing the features, and began to discuss development environments. Decided it would be best to do a desktop app rather than mobile.

New features:

- Search bar should be two dropdown menus, first select from supported states, then select supported city from the state.
- This app doesn't need to be limited to travel, residents can use it as a central information

hub where they can find their city info in one place.

- Besides general geography of the area, we could include hiking locations etc.
- Environment tips for travelers.

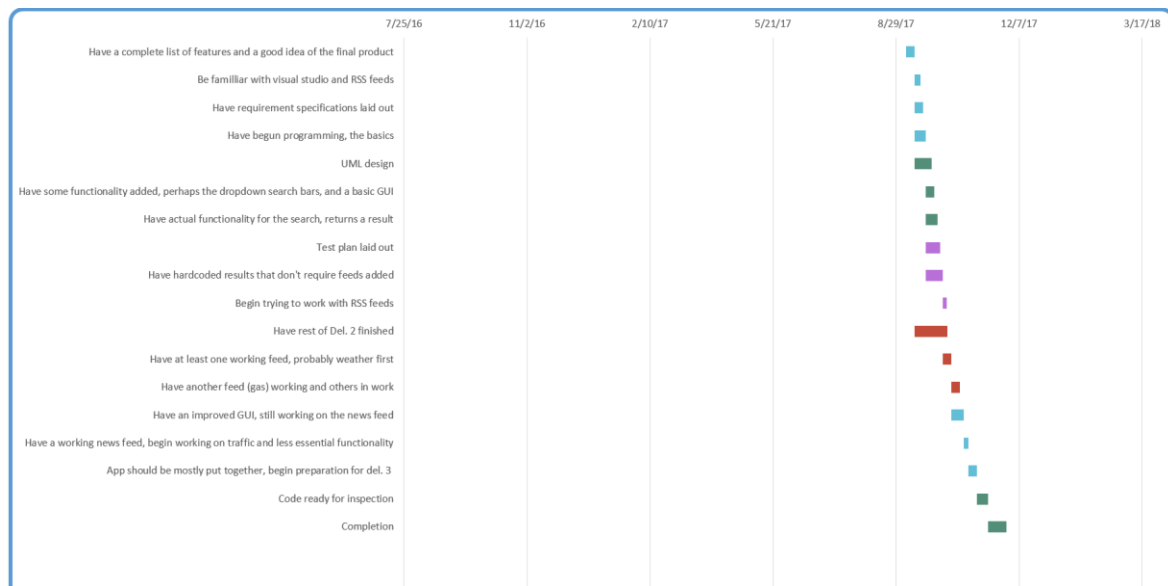
Development:

- Plan to use Visual Studio with C++

(6) Planning and Timeline:

Tentative timeline:

- 9/13:** Have a complete list of features and a good idea what the final product will be
- 9/18:** Be familiar with visual studio and RSS feeds
- 9/20:** Have requirement specifications laid out
- 9/22:** Have begun programming, the basics
- 9/27:** UML design
- 9/29:** Have some functionality added, perhaps the dropdown search bars, and a basic GUI
- 10/2:** Have actual functionality for the search, returns a result
- 10/4:** Test Plan laid out
- 10/6:** have hardcoded results that don't require feeds added
- 10/9:** Begin trying to work with RSS feeds
- 10/10:** Have rest of Del. 2 finished
- 10/13:** Have at least one working feed, probably weather first
- 10/20:** Have another feed (gas) working and others in work
- 10/23:** Have an improved GUI, still working on the news feed
- 10/27:** Have a working news feed, begin working on traffic and less essential functionality
- 11/3:** App should be mostly put together, begin preparation for del. 3 by going over previous code and keep adding smaller functionalities.
- 11/12:** Have code ready for inspection
- 11/27:** Completion



(7) Risks:

1. Inexperience - Because most of our group members have had much experience building software beyond C and C++ programs, we are at a disadvantage.
2. Poor project schedule management - Due to our inexperience, we are at risk of poor project schedule management. Personal time management is difficult for everyone, but coordinating a team effort is even trickier.
3. Communication - Improper communication causes misunderstanding and confusion in a group. Improper communication can include not responding to group mates in a timely manner.

4. Technical problems/difficulties - As all developers know, bugs are going to happen. They can delay a team and deal a massive blow to your project in the long run, robbing you of time to add and perfect features. There is always a chance of encountering problems with other software such as your IDE, repository, and individual files in a large project.

5. Schedule Conflicts - The group members' schedules conflict often, so it is difficult to plan meetings.

Plan for managing risks:

Monitoring:

- Immediately establish times that could work for meetings where everyone is free
- Hold regular meeting and set agendas for each meeting so it has a direction and time is not wasted
- Monitor each group member's contribution.
- Identify subtasks and assign them to individual group members, and ensure tasks are done on time.

Re-Evaluation:

Contingency:

- If there are delays, certain features could be omitted
- Number of cities could be reduced/increased depending on progress
- Assign individual members to research topics required for development of the project and have them teach the rest of the group.

(8) Report:

This deliverable was completed by the due date. Group members are: Garrett Brumley, Peter Menchu (Group Leader), Nasser Alqudaihi, Joseph Vo.

Garrett designed the deliverable document, set up slack for communication, and completed tasks 1, 2, 3, 4, 7, and 8.

Peter set up the repository and took minutes, completing tasks 5, 6, and 9, as well as creating the PowerPoint presentation.

Nasser and Joseph contributed to planning and expanding on ideas, as well as doing research into methods for beginning the building process of the app.

The team will be checking out the code development branch of the repository using Atlassian SourceTree to manage the local repository. Group members will pull from master before working, and will not push to master if it contains software breaking bugs. All work will be done on local machines, and commits to the branch will occur when a problem has been solved. If updating a portion of code that was not originally written by a team member, they will consult the other team member before making changes or whenever merge conflicts would arise.

The group has gotten a slow start, but we have set up weekly meetings at 4:00PM on Wednesdays, and as we refine our responsibilities and the requirements of our design, progress will increase. We have developed a timeline to follow that is based on class project due dates to ensure we are prepared.

(9) Member Contribution Table:

Member name	Contribution description	Overall Contribution (%)	Note (if applicable)
Peter Menchu	Wrote the presentation, did most of the committing	25	
Garrett Brumley	A lot of committing, many ideas	25	
Joseph Vo	Mostly discussion, some committing	25	
Nasser A	Discussion, many ideas	25	