SOFTWARE PROJECT MANGEMENT PLAN

1. Introduction:

1.1 Objective:

The objective of this project is to develop GeoHelp V1 which can Track the current/last Updated Location of Users Then find the nearest user's location and sent him the emergency Short message and his current location. By this Log the user can find out that person who want help from him.

1.2 Major Functions:

In this GeoHelp, major functions available to user are:

a. Track the current Location of user on Geohelp Server
b. Send the emergency message and his current location
c. User can see navigation help from Google maps Service

1.3 Performance Issues:

Here performance issue is that user need to constantly check for User's last updated location in every 30minutes.when there any user in trouble and if he needed help then he have to click on fire button, the application automatically send the emergency message and his current location in the form of longitude and latitude, so that that user can see navigated map on his android phone.

1.4 Management and Technical Constraints:

Since there are only two team members, so managing the whole project is very difficult on locally on single computer. Also this project needs good database so to ensure updated last updated location of each and every user 'log when users uses this GeoHelp Android application .

2. Project Estimates:

2.1 Historical Data Used:

For developing this GPS based Android application data information of whatsapp and find me application was used. From that application only idea of different function was gather and implemented. Also different methods were executed.

2.2 Estimation Technique Used:

For this project Heuristic Technique i.e. COCOMO was used. Using that project size, project duration, and efforts was calculated.

2.3 Estimation:

Line of code = no. of files * avg. no. of line

=10 * 150

=1700= 1.7(KLOC)

Since project is organic so a1=2.4 and a2=1.05

Efforts= a1 * (KLOC) ^a2

=2.4 * (1.5) ^1.05

=3.67

=4 person month.

Functional Point Calculation

Sr.no	Factors	value
1	Data Communication	4
2	Distributed Data Processing	4
3	Performance	4
4	Heavily used Configuration	2
5	Transaction Rate	3
6	End User Efficiency	3
7	Online Update	4
8	Complex logic	4
9	Reusability	5
10	Conversion ease	5
11	Operational ease	3
12	multiple sites	2
13	facilitate change	4
	Total	**47**

UFP= (no of ip)*4+ (no of op)*5+ (no of inquiries)*4+ (no of files)*10+ (no of interface)*10

= (5)*4+ (3)*5+ (4)*4+ (10)*10+ (1)*10

=20+15+16+100+10

UFP =161

TCF=0.65+0.01*47

=1.12

FP=UFP*TCF

=161*1.12

=180.32

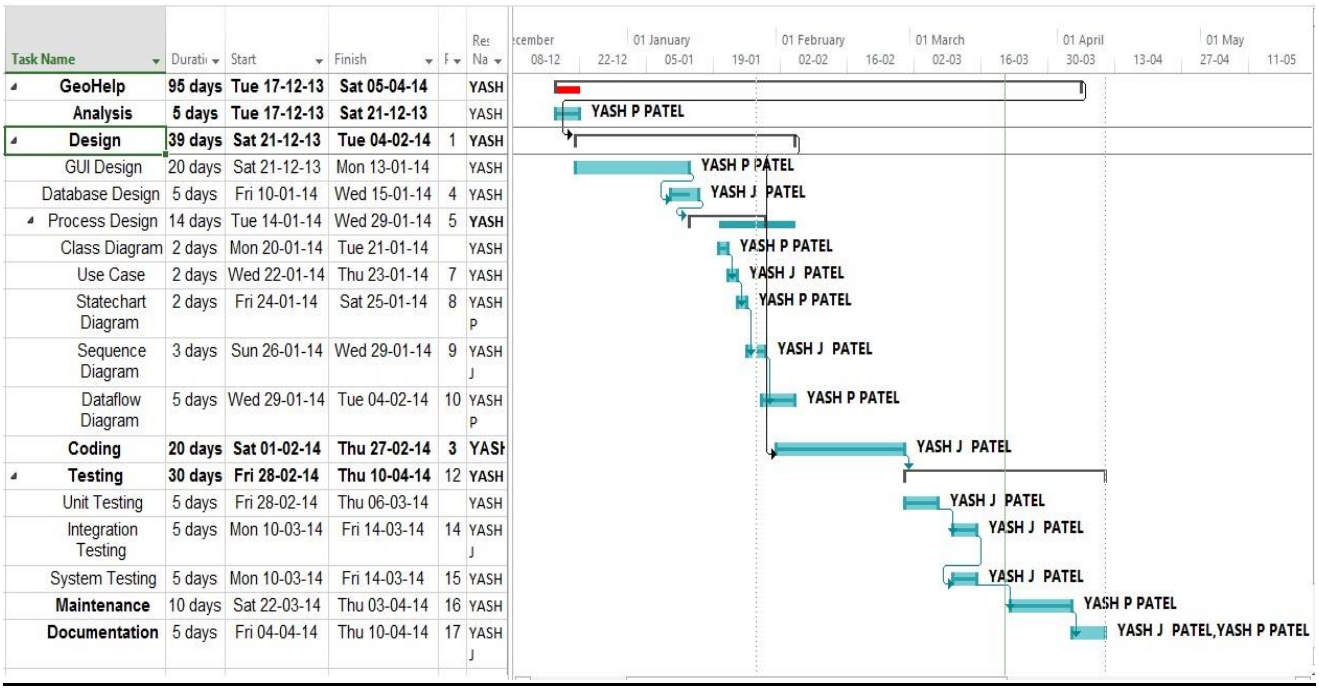
FP =180.32

3. Scheduling:

Task Sheet:

Task Name	Duration	Start	Finish	Predecessors	Resource Names
GeoHelp	**95 days**	**Tue 17-12-13**	**Sat 05-04-14**		**YASH J PATEL,YASH P PATEL**
Analysis	**5 days**	**Tue 17-12-13**	**Sat 21-12-13**		YASH P PATEL
Design	**39 days**	**Sat 21-12-13**	**Tue 04-02-14**	1	**YASH J PATEL**
GUI Design	20 days	Sat 21-12-13	Mon 13-01-14		YASH P PATEL
Database Design	5 days	Fri 10-01-14	Wed 15-01-14	4	YASH J PATEL
Process Design	14 days	Tue 14-01-14	Wed 29-01-14	5	**YASH P PATEL**
Class Diagram	2 days	Mon 20-01-14	Tue 21-01-14		YASH P PATEL
Use Case	2 days	Wed 22-01-14	Thu 23-01-14	7	YASH J PATEL
State chart Diagram	2 days	Fri 24-01-14	Sat 25-01-14	8	YASH P PATEL
Sequence Diagram	3 days	Sun 26-01-14	Wed 29-01-14	9	YASH J PATEL
Dataflow Diagram	5 days	Wed 29-01-14	Tue 04-02-14	10	YASH P PATEL
Coding	**20 days**	**Sat 01-02-14**	**Thu 27-02-14**	**3**	**YASH J PATEL**
Testing	**30 days**	**Fri 28-02-14**	**Thu 10-04-14**	12	**YASH J PATEL**
Unit Testing	5 days	Fri 28-02-14	Thu 06-03-14		YASH J PATEL
Integration Testing	5 days	Mon 10-03-14	Fri 14-03-14	14	YASH J PATEL
System Testing	5 days	Mon 10-03-14	Fri 14-03-14	15	YASH J PATEL
Maintenance	10 days	Sat 22-03-14	Thu 03-04-14	16	YASH P PATEL
Documentation	5 days	Fri 04-04-14	Thu 10-04-14	17	YASH J PATEL,YASH P PATEL

Gantt Chart:



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Database Design	5 days	Fri 10-01-14	Wed 15-01-14	4	YASH
Process Design	14 days	Tue 14-01-14	Wed 29-01-14	5	YASH
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Use Case	2 days	Wed 22-01-14	Thu 23-01-14	7	YASH
Statechart Diagram	2 days	Fri 24-01-14	Sat 25-01-14	8	YASH P
Sequence Diagram	3 days	Sun 26-01-14	Wed 29-01-14	9	YASH J
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Resource sheet:

Resource Name	Type	Material Label	Initials	Group	Max. Units	Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base Calendar
YASH J PATEL	**Work**		**Y**		**100%**	**$0.00/hr**	**$0.00/hr**	**$0.00**	**Prorated**	**Standard**
YASH P PATEL	**Work**		**Y**		**100%**	**$0.00/hr**	**$0.00/hr**	**$0.00**	**Prorated**	**Standard**

Resources allocation:

Resource Name	Work
Yash J Patel	**237hrs**
Analysis	**0hrs**
Design	**50hrs**
GUI Design	0hrs
Database Design	*25hrs*
Process Design	**25hrs**
Class Diagram	*0hrs*
Use Case	*10hrs*
State chart Diagram	*0hrs*
Sequence Diagram	*15hrs*
Dataflow Diagram	*0hrs*
Coding	***100hrs***
Testing	**75hrs**
Unit Testing	25hrs
Integration Testing	*25hrs*
System Testing	*25hrs*
Maintenance	*0hrs*
Documentation	*12hrs*
Yash P Patel	**248hrs**
Analysis	***25hrs***
Design	**160hrs**
GUI Design	*100hrs*
Database Design	*0hrs*
Process Design	**60hrs**
Class Diagram	*10hrs*
Use Case	*0hrs*
State chart Diagram	*25hrs*
Sequence Diagram	*0hrs*
Dataflow Diagram	*25hrs*
Coding	***0hrs***
Testing	*0hrs*
Unit Testing	*0hrs*
Integration Testing	*0hrs*
System Testing	*0hrs*
Maintenance	***50hrs***
Documentation	***13hrs***

4. Project Resource:

4.1 People:

People resources are: a. YASH J PATEL

b. YASH P PATEL

4.2 Hardware and Software:

For implementing this project Android Jelly bean or above version is required and at least 512 MB RAM. Good Internet Speed For better Performance and execution is recommended. Also it will work on all Android platform above Jelly Bean. GPS Navigation Services must be required for this Application.

4.3 Special Resource:

Eclipse and Android Studio and Droid Draw Are required as a special resource for development of project.

5. Staff Organization:

5.1 Team Structure:

Our team is made up of two members. So whole project is develop and manage by both the members. Both members were equally present during each phase of development. So analysis, design, implementation, and testing etc. were done by both members. Our team structure is democratic. Both members agree on each other ideas and decision.

5.2 Management Reporting:

Every week we need to submit our report of completion to our faculty. Also appropriate feedback was given by them using which we can make system more efficient.

6. Miscellaneous Plans:

6.1 System testing plan:

During project development only several testing were done by both members. Also core modules are under development and are tested several times.

6.2 Validation and Verification:

All module are validated and verified using validation code. In each module both input and output were validated and verified.

6.3 System testing Plan:

System is to be tested after development of the core modules has been developed fully.

6.4 Delivery, Installation and Maintenance Plan:

Since it is Android application so it need to be install. But it can be accessed or used by any authenticated user. User just needs to connect to internet and use this Application.