Test Plan Document

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Contents

Introduction

1.1 Scope and purpose

In this document we want to give an overall description of the project planning of *My Taxi Service*. We will:

1. identify deliverables and deadlines
2. extimate the total effort required
3. analize possible risks and contengency plans

Function Points

In order to evaluate the cost of the project we have to identify the function points and estimate the complexity of each one. To each point we assign a weight referring to this table:

Function types	Weight		
	Simple	Medium	Complex
External Input	3	4	6
External Output	4	5	7
External Inquiry	3	4	6
Internal Logic File	7	10	15
External Interface File	5	7	10

Internal Logic File : users (guest, taxidriver and passenger), ride, sharedride, taxiqueue

External Interface File : gps coordinates, map service

External Input : login, logout, request, reserve, delete, reserve shared, accept call, refuse call, report, taxi available, taxi not available, change settings

External Output : message (eta, no taxi message)

External Inquiry : see profile, see active ride list

2.1 Complexity and cost evaluation

2.1.1 Internal Logic File

According to our previous specification (explained in RASD and DD documents) users and ride have to store few information, for these we can adopt the simple cost weight, while sharedride and taxiqueue have to store a dynamic list, that require more attention, so we adopt a medium cost weight. (1) 4x7 + 2x10=48 FPs

2.1.2 External Interface File

The interaction with gps coordinates and the map service is very simple, because we needs few information from them, so we adopt a simple weight

for both of External Internal Files.
(2) 2x5= 10 FPs

2.1.3 External Input

(3) 12x3=36 FPs

2.1.4 External Output

Sending eta requires to access the map service that calculate ,by his own , the needed value, so we adopt a simple cost weight for message.
(4) 2x4= 8 FPs

2.1.5 External Inquiry

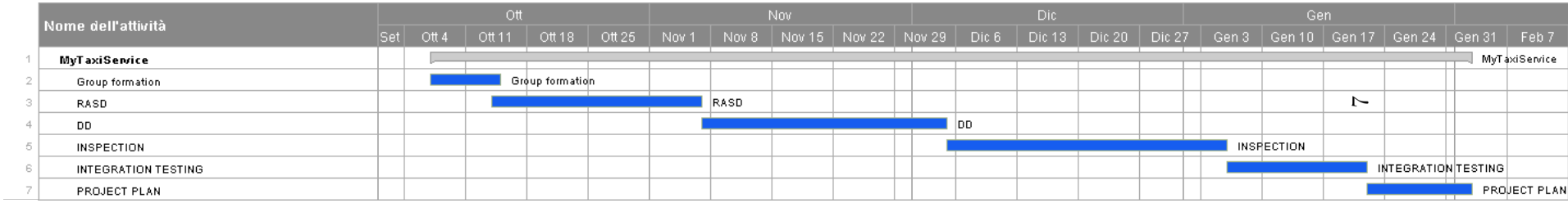
See the profile requires only to send some fields saved in the current user, for this External Inquiry we adopt a simple cost weight, while the active ride list requires to scan the ridehistory and check its status (actived or not), we adopt a medium cost weight for this.
(5) 1x3 + 1x4= 7 FPs

In summary we have FPs= $\sum_{i=1}^{5} FPi = 109$

COCOMO II

Schedule and resources allocation

4.1 Gantt's diagram


Nome dell'attività
Ott
Nov
Dic
Gen
Set
Ott 4
Ott 11
Ott 18
Ott 25
Nov 1
Nov 8
Nov 15
Nov 22
Nov 29
Dic 6
Dic 13
Dic 20
Dic 27
Gen 3
Gen 10
Gen 17
Gen 24
Gen 31
Feb 7
1 MyTaxiService
2 Group formation
3 RASD
4 DD
5 INSPECTION
6 INTEGRATION TESTING
7 PROJECT PLAN
MyTaxiService
Group formation
RASD
DD
INSPECTION
INTEGRATION TESTING
PROJECT PLAN

Risk evaluation

5.1 Risk evaluation and avoidance

Risk	Probability	Effects
1.Key staff are ill at critical times in the project	Moderate	Serious
2.Changes to requirements that require major design rework	Moderate	Serious
3. Loss of data	Low	Catastrophic
4. Poor collaboration among team members	Moderate	Serious

Risk	Strategy
1.	Each member is aware of the job done by other components so that he can review/finish the task if someone gets sick
2.	Pay attention and if needed ask for clarification
3.	Keep all material synchronized with Github
4.	Keep in good relationship and talk about the project issues