

**Project report**

Java Project

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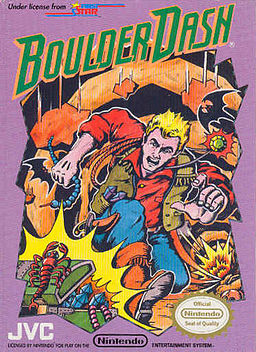
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# Introduction

## Project presentation

For this object-oriented programing project, we were asked to realize the famous game Boulder Dash in java.

During the project, we had to use some tools like Maven, JUnit, GitHub, and a data base connector to simplify our team work. We also had to realize some diagrams like class, packages, components diagram before the coding part to modelize how the program would be executing.



*Our client asks us to rewrite a famous game from 1984, “Boulder Dash”, a game where you must collect diamonds to move forward through the game while avoiding enemies and boulders. In order to do so, we have to code it in JAVA and use Maven, which is a build automation tool used primarily for Java projects and a database to stock our different levels. Furthermore, we are asked to provide many files such as the complete Javadoc, unitary tests, Surefire (it allows us to have account of our unitary tests) and some diagrams. To fulfil everything, we have two weeks of work (from 13/06 to the 26/06 which is the date of the defense of our project) that will be distributed in tasks to the different members of the group.*

## Project actors

Gautier VUILLAUME

Hugo ROUTY



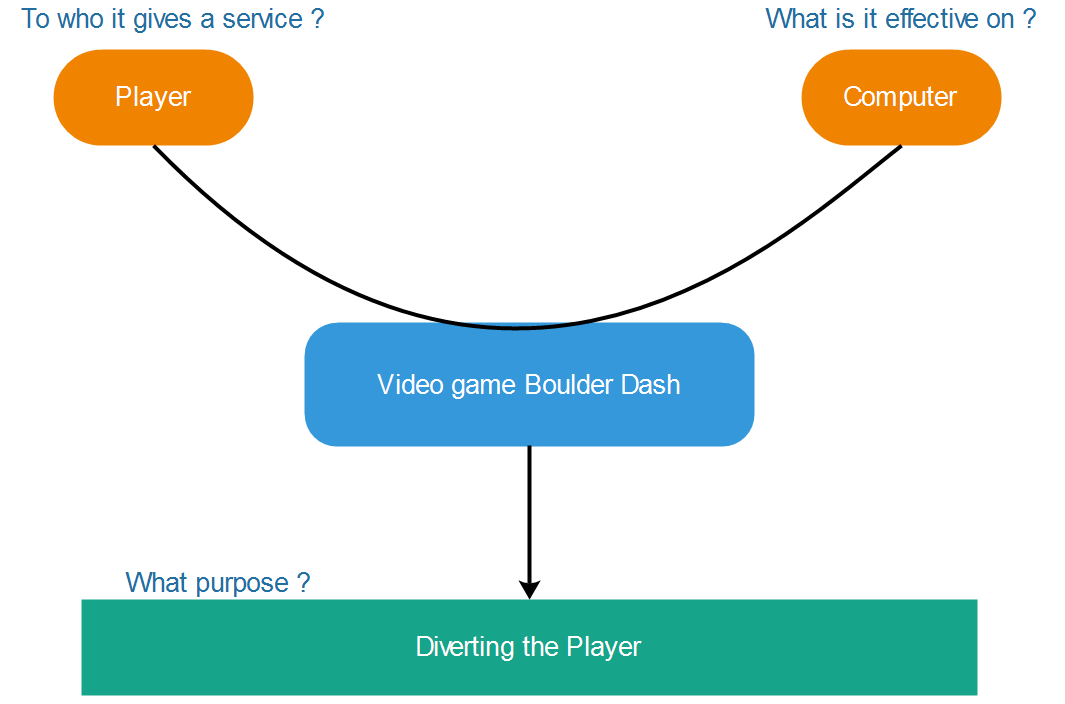
Julien HENROTIN

Emmanuel BOUSSER

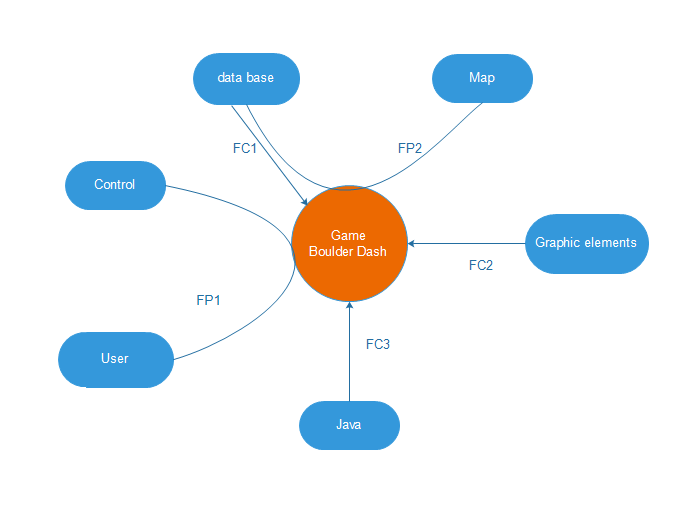


The project manager (Gautier) must ensure that the schedules are set up and maintained. It also manages the division of tasks and decision-making.

## Study of the need

Services diagram

Interactions diagram



FP1: user can play to game with control on his keyboard

FP2: the map is stocked in database

FC1: The game uses the maps who is stocked in data base

FC2: The graphic elements are on an external file

FC3: The program runs under a Java environment

# Used software

|  |  |
| --- | --- |
| Afficher l'image d'origine | Office suite for the realization of deliverables and PPT. |
| Résultat de recherche d'images pour "discord" | Software to communicate easily. |
| Résultat de recherche d'images pour "gantt project logo" | Using Gantt Project to organize schedules. |
| Résultat de recherche d'images pour "wamp" Résultat de recherche d'images pour "mysql" | Using Wamp Server and the MySQL DBMS to build the database. |
| C:\Users\julie\AppData\Local\Microsoft\Windows\INetCache\Content.Word\eclipse.png | IDE use for developing our project. |
| Résultat de recherche d'images pour "jmerise logo" | Software for modeling Merise diagram (CMD…) |
| Résultat de recherche d'images pour "edraw logo" | Software for modeling class and package diagrams. |
| C:\Users\julie\Desktop\visual-paradigm.png | Software for modeling class and package diagrams. |
| C:\Users\julie\Desktop\git hub.png | GitHub is a web-based Git or version control repository and Internet hosting service. |

## Provisional schedule

We have made a Gantt diagram for represent our provisional schedule.

It is linked here:



## Pert diagram

To symbolize the tasks to be done to complete this project, we realized a pert diagram. It is linker here:



# Production

# Project log

|  |  |  |
| --- | --- | --- |
| **Date** | **Team members** | **Tasks realized** |
| 13/06/17 | BOUSSER Emmanuel | * Subject study * Global class diagram * Git creation * Installation of the environment |
| HENROTIN Julien |
| ROUTY Hugo |
| VUILLAUME Gautier |
| 14/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel | * Distribution of tasks * Global class diagram * MVC class diagrams |
| HENROTIN Julien |
| ROUTY Hugo |
| VUILLAUME Gautier |
| 15/06/17 | **Team briefing –** *Forecast of day work* | |
| BOUSSER Emmanuel | * Controller class diagram |
| HENROTIN Julien | * View class diagram * Functional analysis |
| ROUTY Hugo | * Data access object class diagram * Model class diagram |
| VUILLAUME Gautier | * Model class diagram |
| 16/06/17 | **Team briefing –** *Forecast of day and week-end work* | |
| BOUSSER Emmanuel |  |
| HENROTIN Julien | * View class diagram * Start of Junit tests |
| ROUTY Hugo | * Data access object class diagram * PERT Diagram |
| VUILLAUME Gautier |  |
| 17/06/17 | BOUSSER Emmanuel |  |
| HENROTIN Julien | * Junit test |
| ROUTY Hugo | * Data base creation * Map creation |
| VUILLAUME Gautier |  |
| 18/06/17 | BOUSSER Emmanuel |  |
| HENROTIN Julien | * Junit test |
| ROUTY Hugo | * Data base filling * Stored procedures |
| VUILLAUME Gautier |  |
| 19/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel |  |
| HENROTIN Julien | * View code |
| ROUTY Hugo | * JUnit tests * Stored procedures |
| VUILLAUME Gautier |  |
| 20/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel |  |
| HENROTIN Julien | * View code |
| ROUTY Hugo | * Implementation of the java methods that will execute the stored procedures * Class diagram update * Project Report |
| VUILLAUME Gautier |  |
| 21/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel |  |
| HENROTIN Julien |  |
| ROUTY Hugo | * Debugging the code * Project report * Add Java doc on the code |
| VUILLAUME Gautier |  |
| 22/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel |  |
| HENROTIN Julien |  |
| ROUTY Hugo |  |
| VUILLAUME Gautier |  |
| 23/06/17 | **Team briefing –** *Forecast of day and week-end work* | |
| BOUSSER Emmanuel |  |
| HENROTIN Julien |  |
| ROUTY Hugo |  |
| VUILLAUME Gautier |  |
| 24/06/17 | BOUSSER Emmanuel | * *Production of the slideshow* * *Oral preparation* |
| HENROTIN Julien |
| ROUTY Hugo |
| VUILLAUME Gautier |
| 25/06/17 | BOUSSER Emmanuel | * *Production of the slideshow* * *Oral preparation* |
| HENROTIN Julien |
| ROUTY Hugo |
| VUILLAUME Gautier |
| 26/06/17 | BOUSSER Emmanuel | * *Last update on the presentation* * **PRESENTATION** |
| HENROTIN Julien |
| ROUTY Hugo |
| VUILLAUME Gautier |

# Conclusion

## Effective schedule

## Differences analysis

## Encountered problems

## Possible upgrades

## Personal review

* Emmanuel BOUSSER:
* Julien HENROTIN:

Thanks to this project I could participate to design of the complete design of an entire program.

* Hugo ROUTY:
* Gautier VUILLAUME:

## Group review