

**Project report**

Java Project

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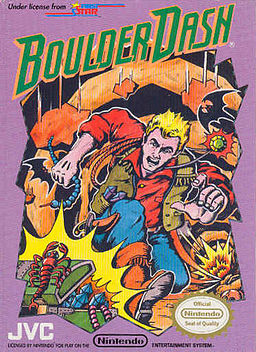
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# Introduction

## 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



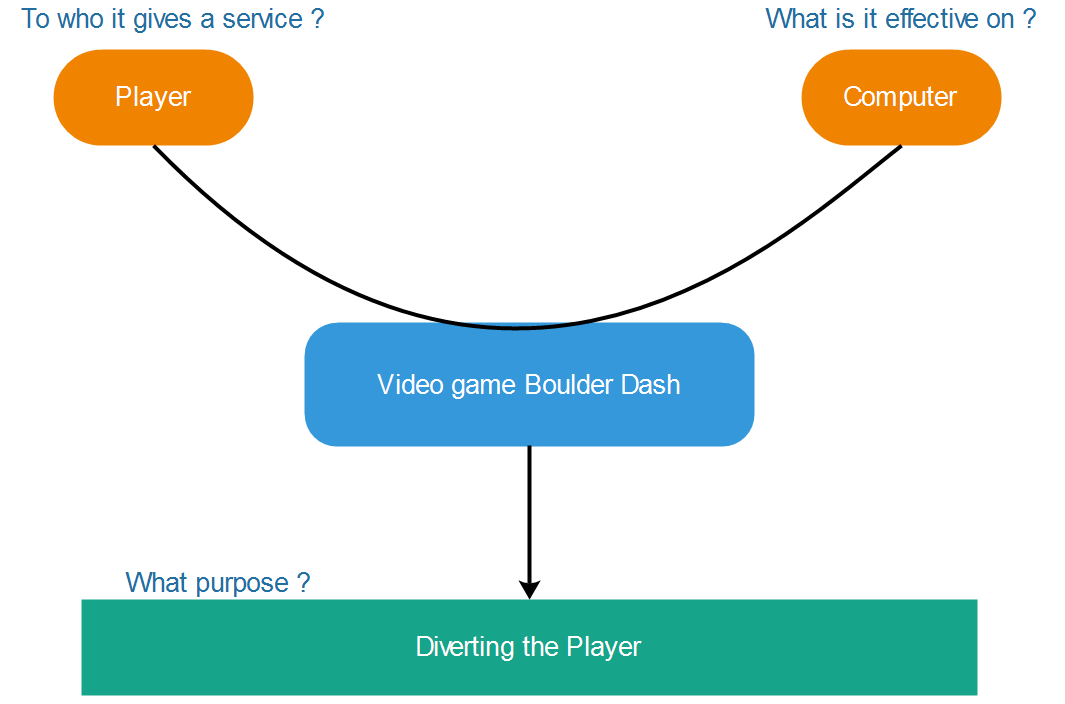
Julien HENROTIN

Emmanuel BOUSSER

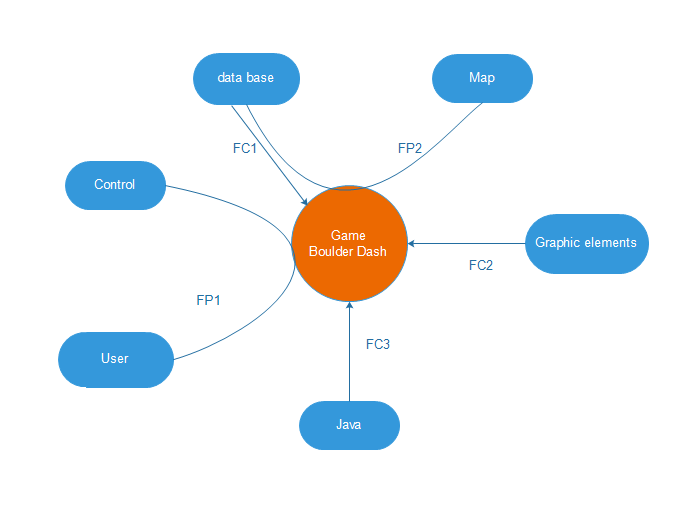


The project manager (Gautier) must ensure that the schedules are set up and maintained. It also manages the division of tasks and decision-making.

## 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

# JProject 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 * Provisional schedule * 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 * CMD |
| VUILLAUME Gautier | * Model class diagram |
| 16/06/17 | **Team briefing –** *Forecast of day and week-end work* | |
| BOUSSER Emmanuel | * Controller class diagram |
| HENROTIN Julien | * View class diagram |
| ROUTY Hugo | * PERT Diagram * Cutting sprites * LMD * Data dictionary |
| VUILLAUME Gautier | * Model class diagram * Sequence diagram |
| 17/06/17 | BOUSSER Emmanuel | * Start of Junit tests |
| HENROTIN Julien | * Start of Junit tests |
| ROUTY Hugo | * Data base creation * Map creation |
| VUILLAUME Gautier | * Class diagram java export |
| 18/06/17 | BOUSSER Emmanuel | * Junit test |
| HENROTIN Julien | * Junit test |
| ROUTY Hugo | * Data base filling * Stored procedures |
| VUILLAUME Gautier | * Starting coding Elements |

|  |  |  |
| --- | --- | --- |
| 19/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel | * Junit test and start controller code |
| HENROTIN Julien | * View code |
| ROUTY Hugo | * JUnit tests * Stored procedures |
| VUILLAUME Gautier | * Elements coding * Component diagram |
| 20/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel | * Controller code |
| HENROTIN Julien | * View code |
| ROUTY Hugo | * Implementation of the java methods that will execute the stored procedures * Class diagram update * Component diagram update * Project Report |
| VUILLAUME Gautier | * Map code |
| 21/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel | * Debug of controller and factory |
| HENROTIN Julien | * Debug of the view * Add Javadoc on the view code |
| ROUTY Hugo | * Debug the DAO code * Project report * Add Javadoc on the DAO code |
| VUILLAUME Gautier | * Debug of Map and elements * Element and Map Javadoc |
| 22/06/17 | **Team briefing –** *Forecast of day's work* | |
| BOUSSER Emmanuel | * Controller Javadoc |
| HENROTIN Julien | * Debug of the view |
| ROUTY Hugo | * Effective schedule * Creation of map/data base test |
| VUILLAUME Gautier | * Implementation of a console view * Debug of elements |
| 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

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

It is linked here:

## 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:

I found this project very interesting because it allows us to implement everything we had seen during the various prosits. It also allows us to realize a software starting from the thinking and going up to the realization in passing by the modeling.

Our group was very pleasant and hardworking, which allowed us to respect our deadlines and to succeed in making something functional while maintaining a good atmosphere in the group throughout the project.

* Gautier VUILLAUME:

## Group review