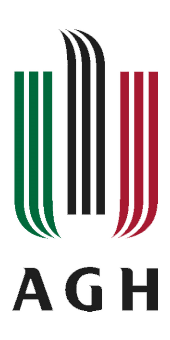
****[**Akademia Górniczo-Hutnicza**](http://www.agh.pl/)

**University of Science and Technology**

Faculty of Mechanical

Engineering and Robotics

Subject: Software Engineering

**FINAL PROYECT**

Team members:

* José Ignacio Valladares Ibarra

Professor:

Date:

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# 1.    Project description

## 1.1   Area and subject of modeling

#### 1.1.1 Problem domain

# 1.2 Modeling area

## *1.2.1*Description of organization structure

#### 1.2.2 Activity areas

# 1.3 Activity areas’ description

#### 1.3.1 Posts description

#### 1.3.2 Business procedures description

# 1.4. Verified system’s responsibilities

# 1.5. Short (abbreviated) problem name

# 1.6. Goals:

#### 1.6.1 Product’s aims

#### 1.6.2 Design aims

# 2.    Requirements description

## 2.1 List of functions from the users’ viewpoint

|  |  |
| --- | --- |
| Super Use Case |  |
| Author | José Ignacio Valladares Ibarra |
| Date | 20 /01/2017 12:00 PM |
| Brief Description | Customer enters to the Buffete restaurant and enters the webpage to order in the restaurant or before entering. |
| Preconditions | * The customer must know what he´s going to order * He must see the menu * He must be able to pay the meal |
| Post-conditions |  |
| Flow of events | |  |  |  | | --- | --- | --- | |  | Actor Input | System Output | | 1 | Customer enters webpage |  | | 2 | Customer ask order |  | | 3 |  | System will give an ID order | | 4 | Client will receive the order |  | | 5 |  | System sends the order to Cashier | |

|  |  |
| --- | --- |
| Super Use Case |  |
| Author | José Ignacio Valladares Ibarra |
| Date | 20 /01/2017 12:15 PM |
| Brief Description | The system asks for payment via card or cash in the restaurant. |
| Preconditions | * The customer must have access to the page and internet * The customer must be able to pay |
| Post-conditions |  |
| Flow of events | |  |  |  | | --- | --- | --- | |  | Actor Input | System Output | | 1 |  |  | | 2 |  |  | | 3 |  |  | | 4 |  |  | | 5 |  |  | |

## 2.2 Data to be stored in the system

The only data stored in the system is the one that the restaurant manages such as feedback, inventory stock and financial records and accessible to customer is their history, last meals, menus etc.

## 2.3 Input and output documents

## 2.4 Required special requirements and limitations

* System shall initially run on all mobile devices running Android.
* Application shall start to run in maximum 10 sec.
* Layout of the application shall be stable for all kind of screen sizes in Android world.
* Internet is required to run the app.
* Manager shall see the processed order in maximum 5 seconds delay.
* There may be up to 24MB worth of stored menus
* Customer’s payment information’s shall not be stored in DB system.
* Interface shall be clean and user friendly.
* Application implementation, testing, and optimization shall not take more than 8 months.

## 2.5 Functional requirements’ analysis

## 2.6 Functional requirements for additional system functions, a list with a short description

## 2.7 Non-functional requirements

# 3.    Functional analysis – DFD-s (*Data Flow Diagrams*)

## 3.1 Context diagram

## 3.2 Top-down analysis

## 3.3 Processes’ description

# **4. Working data dictionary**

# **5. Analysis of data structures in data stores**

# **6.     Model of system’s behaviour in time – STD-s for the main objects**

# 7.    (\* OPTIONAL\*) Data Dictionary according to Yourdon’s notation

# **8.    Comparison of models**

# **9.     System’s architecture(**figure/s**)**

## 9.1 Architecture of the system

## 9.2 Architecture of subsystems

# **10.  Project of the interface**

# 11. Summary

## 11.1                  Assumptions for implementation

## 11.2                  Verification of the Project

## 11.3                  Final remarks and conclusions