

Welcome to "Magic Pizza!"

- **Purpose:** Build a (very basic) web application called "Magic Pizza". With only 1 page, it allows a Pizza restaurant to receive and process pizza orders from the web.
- **User Stories (using simplified Gherkin) :**

1) Feature: Order page (home page)

Scenario: access Order page

Given As a Customer

When invoking "Magic Pizza" URL

Then the Pizza order page is displayed

See Order page mockup →

Price Pizza "1": 5 \$

Price Pizza "2": 6 \$

Price Pizza "3": 7 \$

2) Customer orders a pizza

Scenario: Nominal Pizza order

Given As a Customer

When filling all fields properly (

Selecting "1" as Pizza type AND

set 2 on Quantity AND

set "Smith" on Name AND

set "NYC" on Address AND

set "12345678" on Telephone)

AND press the Submit button

Then a message in the page is returned

"Thanks! Your order has been recorded. You will have to pay <computed Pizza type unit price * Qty> (here 10\$) to the delivery man"

Scenario: Error in Pizza order

Given As a Customer

When set Quantity to "NaN"

AND press the Submit button

Then a message in the page is returns "Sorry Quantity is not a number!"

The mockup shows a web browser window titled "Magic pizza" with the URL "http://localhost:8080/mp/order.action". The page content includes the heading "Magic Pizza!" and three pizza options, each with a placeholder image and a label: "Pizza 1 picture", "Pizza 2", and "Pizza 3 picture". Below these, there are radio buttons for selecting a pizza, with "Pizza 1 (selected)" being the chosen option. To the right of the radio buttons are input fields for "Quantity", "Name", "Address", and "Telephon". At the bottom, there is a "Submit my Pizza order" button.

- **Constraints:**
 - You MUST use the Java language and its server side component (Java Enterprise Edition)
 - You MUST use Test Driven Development for validation rule at least
 - You MUST Apache Struts 2 (<http://struts.apache.org/>) framework to build the Magic Pizza web application (and its JEE elements: JSP, action,...).
- **Track:**
 - You may use maven for easier scaffolding (see Struts 2 archetype) and code generation.
 - Test Driven Development is preferred, at least for checking rule (Quantity field is a number)
 - You may use the Struts 2 “Getting Started” documentation and “Bootstrap” tutorial which is VERY helpful for building the application if you do not know the Struts framework.
 - KISS (Keep It Simple Stupid!): for any question or doubt you may have, which is not covered by this document, take the easiest assumption for you but record it on one README file.
- **Deliverables:**
 - Java Web Archive (.war) file, which MUST be installable on Apache Tomcat server.
 - All Source code and other files used to build the application a "MagicPizza.zip" Zip archive file
 - Inside the zip file, at root, you MUST write a README file with:
 - JDK, JEE and Tomcat version used
 - Web archive build command to build the application from source code
 - List of all assumptions made so far (see Remark below)
 - Any additional remark you may want to add

