

1 Project 1: Personal Information Manager

- **Required technologies:** Javascript, JQuery, CSS, Hibernate, Spring MVC
- **Required steps:**
 - registration/login of users in the system
 - insertion of personal information (e.g., documents, credit cards, . . .)
 - management of passwords
 - * insertion of a password and link of the password to a website/application
 - * random generation of a password, whose length must be comprised between 4 and 50 characters
 - containing only letters (e.g., hesbxJARq)
 - containing only letters and numbers (e.g. hde2ugewShf13)
 - containing letters, numbers and special characters (e.g. ads_yeg-3kjp94b)
 - containing specific words (e.g. tree212uy8_house contains tree and house)
 - * visualization of the list of all websites/applications whose passwords have been stored
 - * the user has to insert a master password to show the password for a specific website/application
 - * redirect & automatic login on the web pages for which a password has been set (if possible)
- **Students:** Bilal Khan, Arturo Guerrisi, Mohamed Osman Raouf, Mostafa Sheikhalishahi

2 Project 2: Pizza Manager

- **Required technologies:** Javascript, JQuery, CSS, Hibernate, Spring MVC
- **Required steps:**
 - registration/login of users in the system
 - registration/login of restaurants in the system
 - a user can:
 - * see the available restaurants nearby
 - * see the pizzas prepared by each restaurant
 - * book (and eventually pay) a number of pizzas to available restaurants
 - * book a table
 - * see the time required by the restaurants for preparing the order (computed accordingly to the number of booking of the restaurant)
 - * rate each restaurant (following 3 parameters: quality/fastness)
 - a restaurant can:
 - * dispatch the orders
 - * add pizzas to the menu
 - * add/remove orders (in case of removal send an email to the user)
 - * management of tables
 - * management of payments
- **Students:** Marco Cosentino, Moiz Khan, Francesco Cosco, Danilo Ruffolo, Davide Gallo

3 Project 3: Class Manager

- **Required technologies:** Javascript, JQuery, CSS, Hibernate, Spring MVC
- **Required steps:**
 - registration/login of professors in the system
 - registration/login of students in the system
 - a professor can:
 - * create a new class
 - * send invitation to/accept students
 - * add place and date of lectures
 - * load/evaluate homeworks (PDF, DOC, PLAIN TEXT, LINKS)
 - * answer to the questions of students
 - * assign scores to students (for each homework and for exams)
 - * manage the attendances of students
 - * visualize statistics on scores/attendances/. . .
 - * send communications (email and on the website) to students
 - a student can:
 - * require the registration to the class
 - * visualize the hours of his/her lectures
 - * visualize and load homeworks (PDF, DOC, PLAIN TEXT, LINKS)
 - * ask/answer to questions
 - * check the number of attendances
 - * show his scores and statistics
 - * use an editor and a console for several programming languages (C++, Java, Javascript, . . .). (Suggestion: several javascript libraries can help you for writing the editor, e.g. look at <https://highlightjs.org/>)
 - bonus:
 - * real time blackboard
- **Students:** Alessandro Cozza, Serafino D'Angelillo, Francesco Maida, Aldo Marzullo, Luigi Olivella