Interação Pessoa-Máquina

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Brew Station

.

Stage 2: User and task analysis

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- **Problem description:** Brief description of the problem.
  - → As a user I want an application where I can search for beer recipes, discuss them, and evaluate them. Using this app, users should be able to control their inventory of ingredients as well as their stock in beers. This app also helps enthusiasts create events to let other users taste their recipes, functioning as a store where users can buy or sell their beers and/or recipes.

- **Users:** Description of each user class.
  - → Brewers and beer enthusiasts. Mostly people who have brewing equipment or plan on acquiring it. We target users of all ages (18+), but expect most users to be aged between 20 and 50. We further expect users to be fairly acquainted with digital technologies, so we do not directly address novices.
  - → We expect most users to be people who are looking for something different from the mass-produced, big-brand beers, and like to support small businesses, typically looking for a beer that has more flavour and personality.
  - → It is also expected that some users will be looking for a unique gift and homemade beer is a good option.
  - → We can also divide the users of this application in two different classes, brewers, who want to use the application to control their inventory and recipes and have interest in sharing ideas about beer production and techniques, and beer enthusiasts, who use this application with the purpose of buying homemade beer and attending events made by producers.

- **Tasks:**
  - ➜ **Task number 1:** submit a recipe
    - ◆ Objective: Create your own recipe
    - ◆ Pre-condition:
      - Already logged in in the app
    - ◆ Sub-tasks:
      - Submit the ingredients for the recipe
      - Submit the right amount of each ingredient
    - ◆ Exceptions:
      - Not enough ingredients
    - ◆ Frequency:
      - It depends on the frequency users want to create new recipes. It is expected that, at the beginning of the app deployment there will be more users creating new recipes but with time, less recipes will be created since users can use recipes which are in the database.
  - ➜ **Task number 2:** search for a recipe
    - ◆ Objective: Search for a recipe that is in the application
    - ◆ Pre-condition:
      - The recipe already exists in the application database
      - Already logged in in the app
    - ◆ Sub-tasks:
      - Filter for ingredient
      - Filter for time of preparation
      - List ingredients that are necessary for the beer production
    - ◆ Exceptions:
      - No recipes available according to the filters used in the search
    - ◆ Frequency:
      - It will be used frequently because it is one of the main features of the application

➔ **Task number 3:** buy a beer
- ◆ Objective: Buy a beer in the application
- ◆ Pre-condition:
  - ● User is logged in in the application and has money in his account
- ◆ Sub-tasks:
  - ● Filter for ingredient
  - ● Filter for alcohol level
  - ● Filter for beer style
- ◆ Exceptions:
  - ● No beers available to buy according to the filters used
  - ● User is not registered, or does not have enough money in the account
- ◆ Frequency:
  - ● It is expected not to be used with much frequency because it is not the focus of the application but it is an additional tool to try new recipes and taste different beers

➔ **Task number 4:** List user inventory
- ◆ Objective: Check the ingredients that the user has and their quantities
- ◆ Pre-condition:
  - ● User is logged in in the application
- ◆ Sub-tasks:
  - ● Register ingredients in the application
- ◆ Exceptions:
  - ● No ingredients in the inventory
- ◆ Frequency:
  - ● It is used frequently since one of the focuses of the application is to help users control their inventory of ingredients so they can start developing new recipes or produce one recipe that already exists in the application

➔ **Task number 5:** Create events
   ◆ Objective: create an opportunity for other users to taste and share recipes personally
   ◆ Pre-condition:
      ● User is registered in the application
      ● User has created at least one recipe
   ◆ Sub-tasks:
      ● Filter for ingredients and alcohol level (events should be based on a specific type of beer)
   ◆ Exceptions:
      ● User has not created any recipe
   ◆ Frequency:
      ● It is expected to be used with little frequency because most users do not have the possibility to create such events and it is also hard to choose a specific location to create the event since the application is used worldwide
➔ **Task number 6:** search for an event
   ◆ Objective: Search for an event that is in the application
   ◆ Pre-condition:
      ● The event already exists in the application
   ◆ Sub-tasks:
      ● Filter for local
      ● Filter for event type (contest or beer tasting)
      ● Filter for beer style of the event
   ◆ Exceptions:
      ● No events available according to the filters used in the search
   ◆ Frequency:
      ● It will be used frequently because even though most users won't create events, they can all participate in the existing events and the focus of this application is to have most of its users attending the events in order to share their ideas, opinions and recipes and to create a community around craft beer.

● **Scenarios:**
  ➜ **Scenario number 1:** A brewer wants to brew a new beer. First he searches for a recipe of the beer style he is interested in, to use it as a base. After that, he verifies if he has enough ingredients in his inventory. Finally, he copies the recipe and creates a new recipe with some adjustments in order to fit his own taste. He can also create a new recipe from scratch if he desires to.
  ➜ **Scenario number 2:** An user (beer enthusiast or brewer) searches for an event to try a new style of beer in order to check whether he likes it or not, and to buy or brew it after.
  ➜ **Scenario number 3:** An user (beer enthusiast or brewer) wants to buy a beer according to his taste. He searches for an ingredient, alcohol level or style that he wants his beer to have. According to the user's taste, If he is already registered and has money in his account, he can buy a beer from the several options available.