Háskóli Íslands

Software project 1

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Assignment 1

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HÁSKÓLI ÍSLANDS

Efnisyfirlit

Vision and Scope

• Section 1.5: Vision Statement

- **For** people interested in cooking
- **Who** want to reduce food waste, use what they already have in their kitchen and make delicious meals without having to create their own recipes
- **The** Freyr
- **Is** A recipe website
- **That** will provide access to recipes based on ingredients currently available to the user. This enables them to save money and time while reducing food waste.
- **Unlike** regular recipe websites where the user has to cater to the recipe we cater to the user and what they have available.
- **Our product** will find and return all recipes that include the ingretients the user feeds into the system.

• Section 1.1 - Background

Using a recipe book to look for the perfect meal can be a long and tiring task. Even when we use a recipie website we often end up wasting food because it doesn't fit into the recipe. That is not environmentally friendly and wastes money. This web application will solve this problem. The user will be able to select what ingredients they want to use and get recipes to choose from. The system will show the best result first so the search for the perfect meal is just a few clicks away.

Our team came up with this idea at out first meeting. We thought of a couple of things to do but we all agreed this one was the best. Food waste is a huge issue in western society and the team thinks that this idea will help alot with that problem. This is something dear to the teams heart because this can have a great impact on the world. This also simplifies cooking and preparing meals alot for the average Joe because the amount of planning and thinking is massively reduced with the features presented here above.

• Section 1.2 - Business opportunity

Our application will be a success because it's in style to reduce food waste and thus the timing is great. This project offers alot of scalability and oppurtunities to branch out which helps the idea expand and be successful. For example smart-refrigerators are getting more and more common and having a software like ours integrated to refrigerators would make the life of the owners even more comfortable. However, we will not only reduce food waste but also minimize the time that it usually takes to think of meals to cook and look through recipes to try to find something matching the ingredients available at home. It will also save money for the user in the long run to use this web application because by using what they already have they wont have to buy as much. This idea will also be easily integratable with other software. This product will target a large group of people but mostly home owners. We want to make this web application scaleable between languages and therefore be able to target Icelandic and foreign speakers. There is a solution similar to this one already on the market but we think ours will be better. We want to make it simpler for the user to navigate by creating more filters like what ingredient can not be part of the recipe, and also just make it overall more user friendly. Unlike the other solution we would like to display the highest rated recipes first instead of a random order because that is most likely what the user would want.

• Section 2.2: Scope of initial release

By the time of the first release the user will be able to search for recipes based on their coice of ingredients. The system will generate results that the user will be able to navigate through and click on the recipe that they are most interested in and see more in-depth description of it.

Use Cases in fully dressed format

• Use case 1: signup to user account

- **Use case name** Signup to user account
- **Primary actor** User
- **Preconditions** The user has opened the web application and it's up and running correctly.
- **Success guarantee**
  - User enters details about self.
  - System confirms all details are correctly written.
  - System records the new user.
  - System confirms signup to user.
  - The user is now able to login to the system.
- **Main success scenario**
  1. User arrives at SignUp page.
  2. User enters nessesary details.
  3. User confirms that details have been entered.
  4. System records user.
  5. System confirms SignUp to user.
  6. User can LogIn to system.
- **Extensions / alternate scenarios**
  1. User can't open signup page due to an error.
  2. User doesn't enter details in correct format.
     (a) System gives more information about correct formats.
     (b) User understands formats and rewrites wrong details.

3. User forgets to confirm that all details have been entered and tries closes window.
   (a) System reminds user before closing window to confirm that the details have been entered.
   (b) User then corfirms details.
4. System is unable to record new user.
   (a) System alarms the user.
   (b) System retries to record new user and is successful.

- **Miscellaneous / open issues** Might be no internet connection, the database connection cannot be made, what does GDPR say about storing the users information?

- ## Use case 2: login to user account

  - **Use case name** Login to User account.
  - **Primary actor** User
  - **Preconditions** User has SignedUp to the system
  - Success guarantee

    1. User arrives at LogIn page.
    2. User identifies self.
    3. System authenticates identity of user.

  - **Main success scenario**

    1. User has created an account before attempting to LogIn.
    2. User identifies self.
    3. System authenticates identity of user.
    4. User is able to start searching.

  - **Extensions / alternate scenarios**

    1. User has not created an account prior to LoggingIn.
       (a) System directs user to SignIn page.
       (b) User creates an accounts.
       (c) User attemps for the second time to LogIn.
    2. User doesn't remember password.
       (a) System suggest resetting the password.
       (b) User agress.
       (c) System directs user to resetting page.
       (d) User enters new password
       (e) System records new password
       (f) user attempts for the second time to LogIn.

- **Miscellaneous / open issues** What happens if the users internet connection fails? What if a user try's to access an account that doesn't belong to him?

- ## Use case 3: search for recipe
  - **Use case name** Search for recipe
  - **Primary actor** User
  - **Preconditions** User is LoggedIn to system
  - **Success guarantee**
    1. User selects ingredients for search.
    2. System generates appropriate search results.
    3. User can view results.
  - **Main success scenario**
    1. User finds all ingredients that they want to have for their meal.
    2. User confirms final list of ingredients.
    3. System records the list.
    4. System generates appropriate results.
    5. User can view and navigate results.
  - **Extensions / alternate scenarios**
    1. User can't find the ingredients that they want to choose.
       (a) User manually enters the igredient.
       (b) System verifies the ingredient.
       (c) Ingredient is recorded to users list of ingredients.
    2. User picks the wrong ingredient.
       (a) User notices he picked the wrong ingredient.
       (b) They unselect the ingtedient.
       (c) the ingredient is no longer recorded to users list of ingredients.
    3. User forgets to confirm list of ingredients.

(a) System guids user to confirm before leaving page

(b) User confirms list of ingredients before leaving page.

4. System can't find any results matching list of ingredients.

   (a) System broadens search parameters so that the ingredients chosen are not the only allowed ingredients in recipe.

   (b) System generates results.

5. User doesn't pick any ingredients before confirming list.

   (a) System asks user to enter at least one ingredient before confirming.

   (b) User picks one ingredient.

   (c) User confirms list of ingredients.

   (d) System generates results.

- **Miscellaneous / open issues** What if the internet connection fails?

Use Cases in brief format

• Use Case 1: search without login

User only wants to search for recipes without having to login. The user picks their ingredients and then confirms the list of ingredients. The system generates results of recipes that match the list. The user can select recipes to look at more carefully from the results.

• Use Case 2: select recipe to look at

User has chosen ingredients and the System has generated results. The user can brows through the results and then pick one out to look at in more depth. The system sends the user to another page where the recipe is explained step by step. The user can go back to the list of search results from this page.

• Use Case 3: filter results

User has chosen ingredients and the System has generated results. There are way to many results so the user wants to filter out some of the recipes that they are less interested in. They can filter out by selecting their diet, food intolerances, popularities etc. The system filters out the results that do not fall under the users filter preferences.

• Use Case 4: save recipe

User has selected a recipe and realy likes it. They want to save the recipe for later use. The user has logged into the system and is therefore able to save the recipe. The system records the recipe the user wants to save and shows a corfirmation to the user.