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| **S.NO** | **PAPER NAME** | **AUTHOR** | **DESCRIPTION** |
| 1. | Nutro assistant | Sandeep Doodigani | Good health can be achieved by maintaining good behaviors such as a good night sleep,  enough exercise and good nutrition. However, the competitive environment nowadays prevents such  good behaviors. Thus, this work aims to develop an application on mobile devices that is able to (1)  record the daily sleeping, exercise and nutrition information, (2) analyze the collected information  in order to provide a notification or an alarm, and (3) present the analyzed results in a simple and  easy to understand format. The proposed application can collect data from other application and  from the users. A set of simple data analysis methods is performed on the collected data in order to  provide a personal health advice based on the user pre-defined preferences.  Good health can be achieved by maintaining good behaviors such as a good night sleep,  enough exercise and good nutrition. However, the competitive environment nowadays prevents such  good behaviors. Thus, this work aims to develop an application on mobile devices that is able to (1)  record the daily sleeping, exercise and nutrition information, (2) analyze the collected information  in order to provide a notification or an alarm, and (3) present the analyzed results in a simple and  easy to understand format. The proposed application can collect data from other application and  from the users. A set of simple data analysis methods is performed on the collected data in order to  provide a personal health advice based on the user pre-defined preferences.  The spoonacular Nutrition, Recipe, and Food API allow you to access over 365,000 recipes and 86,000 food products. Our food ontology and semantic recipe search engine make it possible to search for recipes using natural language queries, such as "gluten-free brownies without sugar" or "low-fat vegan cupcakes." You can automatically calculate the nutritional information for any recipe, analyze recipe costs, visualize ingredient lists, find recipes for what's in your fridge, find recipes based on special diets, nutritional requirements, or favorite ingredients, classify recipes into types and cuisines, convert ingredient amounts, or even compute an entire meal plan. With our powerful API, you can create many kinds of food and especially nutrition apps. |
| 2. | Effects and challenges of using a nutrition assistance system | [Hanna Hauptmann](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Hanna-Hauptmann), [Nadja Leipold](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Nadja-Leipold), [Mira Madenach](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Mira-Madenach),, [Monika Wintergerst](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Monika-Wintergerst), ,[Martin Lurz](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Martin-Lurz), [Georg Groh](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Georg-Groh), [Markus Böhm](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Markus-B_hm),  [Kurt Gedrich](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Kurt-Gedrich) & [Helmut Krcmar](https://link.springer.com/article/10.1007/s11257-021-09301-y#auth-Helmut-Krcmar) | This paper describe all the features of the current system version used during their long-term study. First, they describe all features required for tracking the daily dietary intake of the participants, namely the food-search, food-details, sports-search, and diary. Second, we describe the recommendation features. Third, we describe all visual feedback screens, namely the statistics screen, nutrition status screen, home screen, and energy overview. Finally, we show all the administrative features such as the preference screen, the profile screen, the login screen, and the settings screen. |
|  | AI Dining Suggestion App | Bao Pham  San Jose State University | In this paper, using the Tinder presentation format obviously eased the food decision making process. In regards to future improvements, an activity log or favorites list could be implemented to retain extra important data from the user. This data not only helps the user learn more about the user’s food habits, but also could be very useful for AI model training later. In addition, extra specific information about the restaurants the user would like to know can be gathered and provided such as ambiance, parking availability, etc. Due to the constraints of the project such as time, limited data for the free tier of Google API and limited testers, the app was not tested intensively enough to observe significant results. Nonetheless, from the experiments, there are the concept of using AI and especially reinforcement learning can be very useful for food recommendation systems. By nature, food decision making can be a time-consuming process because there are multiple factors involved in it. |