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Janus

Stage 2: User and task analysis

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Problem

Let's imagine a student that is in the 9th grade and has doubts of what he wants to study in the next 3 years, he doesn't know what field of study he likes. He can use our vocational tests in the app to help him decide or he can see examples of professions by selecting different fields that he has to choose.

The same student can use our app again to help him decide what college to choose (by making our different and optional vocational test) and in that college what course to take, see what lectures exist in that course, see opinions from students from that course and more importantly see what are possible future professions that that course can bring.

We also make available a different section of our app for universities and companies.

Our purpose is to help all kinds of students feel more secure about their choice and to make the information accessible to all.

Users Classes

The target users for our application are students from the range between 9th grade up to 12th so we have one class that represent the *students*, another that represents *companies* that submit jobs available for the courses and *universities* that update the information on the app by inserting courses and lectures available.

Students will be able to make vocational tests, discover courses and what lectures exist in each course.

There are some differences between the types of students that will be able to use or app; student below 9th grade will have different vocational tests and the high school students below 9th grade will have a vocational test to help them pick what area of studies they want to do for the next 3 years, and the ones above will have a list of courses of the specific area they chose so that they can make a decision in what course to enroll.

Companies will have the opportunity to insert jobs and soft skills that they want from people that want to work in their companies.

Educational Institutions such as universities will be able to add/provide a set of degrees along with the descriptions, average, seats available and also add or remove lectures from a course.

Tasks

Our **Frequency of use** uses the values *always*, *frequent*, *often*, *sometimes* and *rarely*.

1. **Objective:** Search for courses in a college.
   Pre - Conditions: Download the app, select the option that the user is a high school student (after 9th grade).
   Sub - Tasks: Select the college from a list of colleges that belong to an university.
   Exceptions: University does not exist on the list; The college does not exist on the list; The desired course does not exist in that college.
   Frequency of use: Frequent.

2. **Objective:** Do a vocational test.
   Pre - Conditions: Download the app, select the option that the user is a high school student or junior school student (both allow the user to make vocational tests).
   Sub - Tasks: Select what the user likes and dislikes given a set of options.
   Exceptions: ---
   Frequency of use: Sometimes.

3. **Objective:** See what lectures exist in a course and the area they belong.
   Pre - Conditions: Download the app, select the option that the user is a high school student (after 9th grade), select an university, a college from that university and finally select a course from that college.
   Sub - Tasks: See the description of certain lectures, as well as the department they belong.
   Exceptions: The lecture does not exist in that course.
   Frequency of use: Frequent.

4. **Objective:** View average to access and seats available for certain degree.
   Pre - Conditions: Download the app, select the option that the user is a high school student (after 9th grade).
   Sub - Tasks: Search for degree and search for the university
   Exceptions: ---
   Frequency of use: Frequent.

5. **Objective:** View jobs related with a course.

Pre - Conditions: Download the app, select the option that the user is a high school student or junior school student (both allow the user to to this action).

Sub - Tasks: Select a college from a list of colleges/Universities; Select a course from a list of courses provided by the selected college; Select the option to visualize jobs related with selected course.

Exceptions:---

Frequency of use: Frequent.

6. **Objective:** Edit information regarding a certain course.

Pre - Conditions: Have app downloaded and be registered in the system as an university.

Sub - Tasks: Select a course from the list of courses of that university; Update the information regarding that course.

Exceptions: ---

Frequency of use: Sometimes.

Tasks Scenarios

Scenario 1:

João is at the beginning of the 3rd period of the 9th grade and is undecided as to which area to choose for the next 3 years. He knows he likes math, science and history but he can exclude arts because he doesn't like drawing.

Because he is uncertain whether to choose Science, Humanities or Economics, he decides to download the Janus App to help him. Opens the app chooses the option of being a 9th grader (or lower) and decides to start by taking a vocational test to show you your interests more easily.

After the test, searches for courses related to the test result and begin to see the subjects, tuition fees, possible professions connected to the degree, among other information.

Scenario 2:

Nova University intends to make its services widely known in order to be able to fill the largest number of spots for the next academic year. Looking forward to it, they came across with the Janus application. Once the application is available, NOVA user enters the "university" area where they can promote their services by presenting their formative offer in several areas of knowledge, with their appropriate subjects, annual fees and more information related to them. This year Nova University opened one more Master degree, aerospace engineering, and it intend to reach as many students as possible for the spots available by introducing it to the Janus database, thus allowing the future users of the application to find it and possibly acquire more filled spots.

Scenario 3

As a information system the entire goal is to help students choose a career path providing adequate information about a variety of professions.Initially the information displayed is very abstract, and can be specified with each step within the app.In conclusion, any student may interact with the app in order to get information about what degree to enroll.

Scenario 4:

Company X, after 30 years in the labor market and with solid growth over time, intends to keep the service level among the best, and so it needs new ways to improve the service provided by having the best employees in the area. Thus with all the repercussions obtained lately by the Janus application, the company intends to register in the app, therefore it can login and take advantages of the application features. Thereby the company starts by viewing a list of degrees and for those related to its field, it can provide details about the professions and soft skills it promotes for each of them.