[SWP] Assignment 1

Team

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Interview script

General ideas of the project

1. Problems
    a. Goals. Why are the goals exactly such? What prompted the setting of such goals?
    b. Why is there a need for such a project? Why now?
    c. Use-cases (Examples of using of a future solution)
2. Client side
    a. Who will be the end user?
    b. Can this service be useful for other residents of the city?
    c. Which platforms should be supported?
        i. Should it be a web solution (website)?
    d. What solutions have you considered or used before, why did they not fit?

Specific functionality

1. What should the solution cover minimally?
    a. (optional) What is meant by managing, storing events?
2. Requirements for integration with current services (Google tables, sports website)
    a. Do we need to be based on current means, or create a new service independently?
    b. (optional) How do we get events from Opportunities? Will it be convenient to enter data manually?
3. Integration with calendar applications.
    a. Should there be an import to calendars with updates (transferring changes immediately to the calendar)?

Interview transcript

Problems:

1. **Goals**

   The primary goal of the project is to consolidate events from various sources into a single overview, allowing for streamlined access and organization of event schedules. This goal aims to address the challenges faced by students in navigating multiple sources of information and facilitates seamless integration with personal calendar applications.

2. **Need for the project:**

   The project is crucial to overcome the existing difficulties faced by students at Innopolis University when trying to stay informed about events. Currently, event information is scattered across different platforms, including Google Spreadsheets for academic schedules and an external website for sports club schedules. This lack of cohesion poses a significant challenge for students to access and keep track of important events. Therefore, there is a pressing need for a comprehensive event management system that consolidates and organizes these events into a single, easily accessible overview.

3. **Use-stories:** Here are a few examples of how the future solution could be used:

   - Ruslan, a student at Innopolis University, wants to plan his study schedule effectively. By using the event management system, he can easily view and export all his upcoming lectures, labs to his personal calendar app. This ensures he has a clear overview of his academic commitments and can allocate his time efficiently.
   - Sandra is a member of a sports club at the university and wants to stay updated on practice sessions. By importing the sports club's events through the system to her preferred calendar application she receives timely notifications. This allows her to stay organized and never miss a training.

Client side:

1. **Who will be the end user?**
   End users are students and university staff.
2. **Can this service be useful for other residents of the city?**
   Yes, this service can be useful for other residents of the city, but initially, it will be primarily used within the university.
3. **Which platforms should be supported?**

   Should be cross-platform between mobile and desktops. It should support all popular OS such as iOS, Android, desktop systems.

4. **Should it be a web solution (website)?**
   The platform may be supported as a web solution, represented as a website. Of course, it should be responsive for mobile and desktop.
5. **What solutions have you considered or used before, why did they not fit?**

   As I know, spreadsheets were always used for schedules (in 3 last years).

Existing solutions research

Qualitative analysis table

https://docs.google.com/spreadsheets/d/13XYcvCogOu3HQ50wOGlZuQHgwdI64EFOmZ1Kgai9UEs/edit#gid=0

Evaluating criteria for solutions

Integration with calendar apps: This criterion assesses the ability of the applications to integrate with calendar apps.

Notifications: This criterion evaluates the applications' ability to provide notifications.

Free: This criterion examines whether the applications are available for free.

Open-source: This criterion assesses whether the applications are open-source.

Credibility (developers): This criterion evaluates the credibility of the developers behind the applications. Moderators are responsible for the schedule in Google Spreadsheets (that's why the score is below 100%).

Cross-platform: This criterion assesses the cross-platform compatibility of the applications.

Sharing: This criterion examines the applications' ability to facilitate sharing of data.

Collaboration: This criterion evaluates the collaborative features of the applications.

Flexibility for user: This criterion assesses the flexibility offered to users by the applications.

Flexibility for admin: This criterion evaluates the flexibility offered to administrators by the applications.

Structural conformity (validation): This criterion examines the applications' adherence to structural conformity or validation standards.

Integration with Telegram: This criterion assesses the integration of the applications with Telegram.

Easy to use for user: This criterion evaluates the user-friendliness of the applications.

Easy to use for admin: This criterion assesses the ease of use for administrators.

Screenshots board

https://www.figma.com/embed?embed_host=notion&url=https%3A%2F%2Fwww.figma.com%2Ffile%2FrsgYGv7Zlt9esFrRVODaHx%2FUntitled%3Ftype%3Ddesign%26node-id%3D0%3A1%26t%3DKk4azbqupc1CgnVO-1

Report

User’s goals

Consolidation of events from diverse sources is the primary goal of user. Such goal assume the possibility to create event schedules for organizers, and easy access in the single view for users.

Reasons of goal pursuing

Students faced the challenging navigation between diverse sources of information. User dreams about solving the issue and facilitating seamless integration with personal calendar applications.

Overall Evaluation of analogs

Based on the weighted sum of the evaluation criteria, Google Spreadsheets scores 10.7 out of 31, Moodle scores 19.3 out of 31, and Google Calendar scores 18.0 out of 31. The weight sum indicates the overall performance of each application. Moodle achieves the highest score (62.26%), followed by Google Calendar (58.06%) and Google Spreadsheets (34.52%).

Conclusion about analogs

According to the conducted analysis, the most unsatisfied factors are the integration with calendar apps, notifications, open-source software, flexibility for user, integration with Telegram and intuitiveness. Therefore, software product aims to fulfil such factors to make the solution of users’ problem more convenient and high-quality.

In conclusion, Moodle demonstrates a performance across various evaluation criteria, scoring the highest in the overall evaluation. However, it should be noted that despite Moodle's high performance, it may not align with our requirements or preferences.

Questions to clarify

- What exact list of sources do we need to integrate into our system?
- Do we have access to the distribution of students to groups? (to recommend them appropriate groups for import)

Next steps

1. Customer development:
    a. create use-case diagram
    b. predict user stories
    c. (optional) problem interview with students
2. Prototype.
    a. design possible variants of the solution in Figma
    b. describe API schema using OpenAPI
    c. test prototype on end users (test API with Swagger on developers)
3. Conduct next meeting with customer