

Software Project

Assignment 1: Deciding what to build.

Project: TourGuide Manager

Team 59 (Members and Their Contribution):

- **Alexey Chegaev** (a.chegaev@innopolis.university) - Team lead, distributed the roles and organized the work in the team, created a plan and demo-version in figma.
- **Aleksandr Medvedev** (a.medvedev@innopolis.university) - flutter developer, learned basics of Flutter and Dart.
- **Nikita Shankin** (n.shankin@innopolis.university) - flutter developer, learned basics of Flutter and Dart.
- **Georgii Beliaev** (g.beliaev@innopolis.university) - web-developer, learned basics of react, remembered Python.
- **Alexander Simonov** (a.simonov@innopolis.university) - web-developer, learned basics of react, remembered Python.

Date: 08.06.2025

The Interview Notes/Transcript

- Take into account the blacklist of companies that cannot be issued a specific guide
- It is important to connect to the CRM that is already available
- You don't need to add a chat to the app.
- Payment is very important, so that the quantity and the price for it are taken into account.
- The calendar should be as optimized as possible.
- The company's data with customers must be protected so that other companies cannot find out.
- Well, make a web application for admins with a Google calendar for convenient operation.
- A website for the administration with a blacklist of customers (if a person has given a bad review of the guide, we will not give him the same guide again, or if the customer is bad)
 - in Google spreadsheet format.
- The customer chooses a free guide (there should not be all in a row-see the blacklist)
- The difference between the tours is 30 minutes.
- Application: Profile (calendar for guides)
- Login and registration screen? (login via the shopping center registration is not required),
- Flutter with API or db where to enter alias.
- You come in, you're logged in, and you have 2 buttons: profile.
- (avatar, Alias, phone, mail, total counter (how many guided tours and how much you earned))
- Calendar; From above, the next 14 days that can be scrolled down.
- (guided tours by dates(how many people, lists, phone numbers, route, paid not paid), end the tour button at the end).
- Then it is sent to the manager, who checks.

Interview Script with Notes on the Improvement

- **In what form should the application be implemented for guides and managers?** - For guides, there is a separate full-fledged application for mobile devices with a personal account, schedule, calendar.
- **Are there any stack requirements?** - There are no requirements, but we write on flutter + dart.
- **Which database do we use? Can we use PostgreSQL?** - In general, it makes no difference, we can try any database.
- **Do the guides appoint themselves to order, or does the manager do it?** - The manager puts excursions on the calendar, the guides themselves sign up for them, then the manager must confirm the registration.
- **What should be presented in the guide's LC?** - Contact information (phone number, full name, date of birth, alias) should be provided in your personal account, and you also need to make statistics (how many excursions you have conducted, how much you earned from them).
- **Can we use the Telegram API and dart?** - Yes, we can, but how much we need it is another matter, if we are creating a bot with notifications and a mini-app, then we need.
- **Do we need to create some kind of telegram bot with alerts?** - There is no certainty about this yet.
- **Do I understand correctly that the account is created by the customer, that is, he himself enters the alias as logins into the database?** In that case, we don't need to make a registration window, right? - Yes, users do not create accounts themselves, they are issued by the customer, in which case we do not need to create a registration window.
- **Do I need to register a password change window?** - It is possible, but not necessary.
- **Will the application be uploaded to the market or will we leave them purely as APKs that we will personally install for the guides?** - We install it ourselves at first.

Links

Product Research Board:

<https://www.figma.com/design/TrJ3J1HB6TL0mBOJE2Tjg2/Board?node-id=0-1&t=oxBAgyG6UOBtmvk4-1>

Analysis Table:

<https://docs.google.com/spreadsheets/d/1DexmYnH4iXOIwNV60DRZTaaMnr4xSkOXcwle1Tb-8Q4/edit?usp=sharing>

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Report

- **User's Goal and Core Value Point:** The application that solves the organization of guides, where everything will be up-to-date information for the guide, so that everything is under control, which route, paid/unpaid, statistics, lists, etc. All information will be in one place and communication with the manager will be much more adaptive, no need to receive notifications via telegram.
- **Possible Problems:** authorization via telegram, integration of the manager, uploading the application to the sites (Play Market, App Store, etc.)
- **MVP 1:** login capability, database integration, interface.
- **MVP 2:** screen design, profile, calendar.
- **MVP 3:** website for the manager, full implementation and database management.
- **Questions to be further clarified with the customer or through research:** the need to register via telegram, is there a need for a telegram bot.
- **How did you use AI/LLMs in your assignment?** AI helped us in translation and in drawing up possible criteria for qualitative analysis table.
- **Next Steps:** hold a meeting with the team, proceed with MVP 1, and hold another call with the customer.