Slide 1

Hello! I am Daniil Vovikov, a student at the Irkutsk National Research Technical University. Topic of my project is Development of a registration subsystem for events via mobile devices for the information system "Rating of students"

Please ask questions at the end.

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In my appearance, possible points will be touched upon.

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So what is this system? The university has a rating scholarship - a scholarship that rewards students for success in five areas: study, science, sports, cultural and social activities. The problem is that attendance at events is recorded manually, but activity at them counts towards the rating.

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Therefore, we are developing an updated system that can facilitate the organization of events at the university. A part of this system is the registration subsystem for events, which is the mobile application.

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To accomplish this task, we set the following points:

Explore and analyze the system in its current state.

Present the concept of the updated subsystem.

Design interface layouts for the future application.

And create the application.

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To solve problems related to the design of the future subsystem, we used the following tools:

The IDEF0 notation is for creating sets of business processes.

USE-CASE - for working out scenarios for using the application.

To create an application, we have selected the necessary technologies and code libraries.

and created a mobile app architecture

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Using the IDEF0 notation, we created business models for the current and future representation of processes.

With the help of USE-CASE, the processes of using the application were described.

We also created the system and application architecture.

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This slide presents the business processes of the current and future state of the system. The future representation of the system consists of three blocks: Create an event in the system, Register for the event, Confirm presense.

In the first block, the responsible person creates an event in the system.

In the second block, students register for the event.

In the final block, confirmation of the presence of students at the event is carried out.

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A use case diagram is a set of actions available to custom entities allocated in the system.

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This slide shows the architecture of the system: the mobile application interacts with the server part of the system, which sends responses from the database.

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At the current stage of development, we have: interface layouts and a prototype of the mobile application.

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This slide shows a prototype of the mobile application. A student can log in to it, sign up for an event and receive a QR code to confirm their presence. The person in charge reads the QR code using the application and thus confirms the presence.

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In conclusion, I would like to say that the work has not been fully completed.

As a reserve for the future, the following points can be дистингвишд:

Finish developing a mobile application.

Test the mobile app.

Set up integration with the system API.

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This slide contains a list of sources used.

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Do you have any questions?