Khmelnytskyi National University

Department of Computer Engineering and Information Systems

**Report**

Laboratory work №4

Discipline: “Software Requirements and Quality Analysis”

Topic: “Detailed description of key use cases”

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***Purpose of work:*** Formation of practical skills in the development of descriptions of key use cases

**4.1** **Tasks for laboratory work**

1. Analyze key use cases. Main selection criteria: critical importance for the user (investor); variant of use, as an " architectural " component; a use option that allows you to reduce risks.

2. Describe the basic flow of events of key use cases. Here and further use the description template based on the RUP methodology.

3. Describe alternative scenarios for key use cases.

**4.2 Completion of the task**

***Key use case:***

***Sign up***

***Description :*** This key use case allows a user to create their own account.

***Actors :***

− user.

***Prerequisites :***

− the user has access to the registration form;

− the backend is working and available for interaction.

***Main events :***

1. User clicks the "Register" button on the main page of the system.

2. Front displays the registration form.

3. User enters his personal data: username, email and password.

4. User clicks the "Register" button.

5. Backend validates the entered data.

6. Backend creates user account.

7. Backend sends confirmation email with link to activate user’s account.

***Alternative events :***

– if the entered data does not meet the requirements, the system notifies the user and asks to correct it.

***Prerequisites :***

– the user is successfully registered, activated account and can enter the personal account using the entered credentials.

**Conclusion:**

In this laboratory work, practical skills were developed in analyzing and describing key use cases, specifically focusing on the "Sign up" process. By following the RUP methodology, we effectively described the main flow of events and alternative scenarios for this critical use case.