## Informed Consent Form

You are invited to participate in a user-centered validation session to validate the usability, accuracy, adequacy of the retrieved context, usefulness, and likeliness of adopting the GraphRAG Dialogue Insights (GDI) system.

**Purpose of the Study**

The GDI approach uses knowledge graphs, retrieval-augmented generation, and large language models (LLMs) to enable users to query work items in natural language and trace how the LLM integrates the user query with the retrieved information to generate a response. The study aims to explore user experiences with the GDI system in supporting software development teams in retrieving information to address their information needs.

**Procedures**

* You will take part in a 1 hour session consisting of:
  + A brief **introduction** (15 minutes) explaining the study’s purpose, the GDI system, its interface and functionality, and the user-centered validation session.
  + **User-centered validation session** (30 minutes):
    - You will be given questions related to trace link recovery. For each question, you will search for the answer in Azure DevOps and write down your expected answer in Notepad ++. You will interact with the system to retrieve information and compare its response to your expected answer.
    - You will be asked to think aloud while doing these actions.
    - You may also formulate and test your questions at the end of the session.
  + An **interview** (15 minutes) to discuss your experience and to validate the usability, accuracy, adequacy of the retrieved context, usefulness, and likeliness of adopting the GDI system.

**Voluntary Participation**

Your participation is entirely voluntary. You may withdraw at any time without providing a reason. Declining participation will not result in any negative consequences.

**Confidentiality**

The session will be recorded, securely stored, and used solely for research purposes. The findings will be included in a research paper, but no identifiable information will be shared.

**Potential Risks & Benefits**

There are no known risks associated with participating in this study. Your feedback will contribute to refining the system, improving retrieval accuracy, and enhancing user experience.

**Consent Statement**

By signing below, I confirm that I have read and understood the information provided in this informed consent form. I voluntarily agree to participate in this study.

Participant Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  
Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_