Ellie Technologies

Project Proposal – Snowflake Data Modeling

1. Introduction

Ellie Technologies launched in 2019 an intuitive cloud-based data modeling and collaboration software Ellie (http://www.ellie.fi/) which is already used in over ten major companies and organizations in Finland. The company aims to take the product next to worldwide markets. At the moment Ellie is integrating the software to other IT systems (e.g. data warehouse automation tools, data catalog tools, data vaults) so that data warehouses and big data platforms can be built and managed effectively.

2. Project goals

The goal of the project is to integrate Ellie with Snowflake (https://www.snowflake.com), the most popular and fastest growing cloud-based data warehouse today. Ellie should be able to show the schema from an active Snowflake database and view it inside Ellie in a meaningful way. Optionally the schema can be exported to Snowflake after editing.

3. Technologies

Ellie runs currently in AWS. It's front-end is developed with modern web technologies such as React. The back-end is developed with e.g. Python and PosgreSQL. Snowflake runs on both AWS and Azure. It can be accessed from outside programs through various connectors and interfaces. The team can evaluate the best way to access Snowflake and how to integrate it with the Ellie environment.

4. Requirements for the students

The students should understand the basics of database design and data storage on the cloud. The student group should have both front-end and back-end development interest.

Difficulty level: moderate.

5. Legal Issues

Intellectual Property Rights (IPR):
The client gets all IPRs to the results.

Confidentiality:
The client will share some confidential information with the students.

6. Client

Ellie Technologies is a data modeling software start-up, which launched in 2019. The company office is based in Lauttasaari, Helsinki.

Juha Korpela is Ellie's Chief Product Officer. His previous position was Head of Azure Data Platform at UPM.

Jari "Jaffa" Jaanto is Ellie CTO and domain expert in all technologies used in the project. Jaffa has been the CTO of several software companies and start-ups in the past.

The Client provides as much time as the students need and can provide collaborative working space and access to necessary services and tools.

Client representative(s)
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7. Additional information

Everything is done in English.