

Gakktu í bæinn

A community for new Icelanders

Árni Geir Úlfarsson, Sóley Lúðvíksdóttir and Troy A. Porter

What and why?

- Information platform for refugees and immigrants coming to Iceland
- Multi-language, ultra-accessible
- Adaptive to community needs
- Inspired by current world affairs



Vision statement

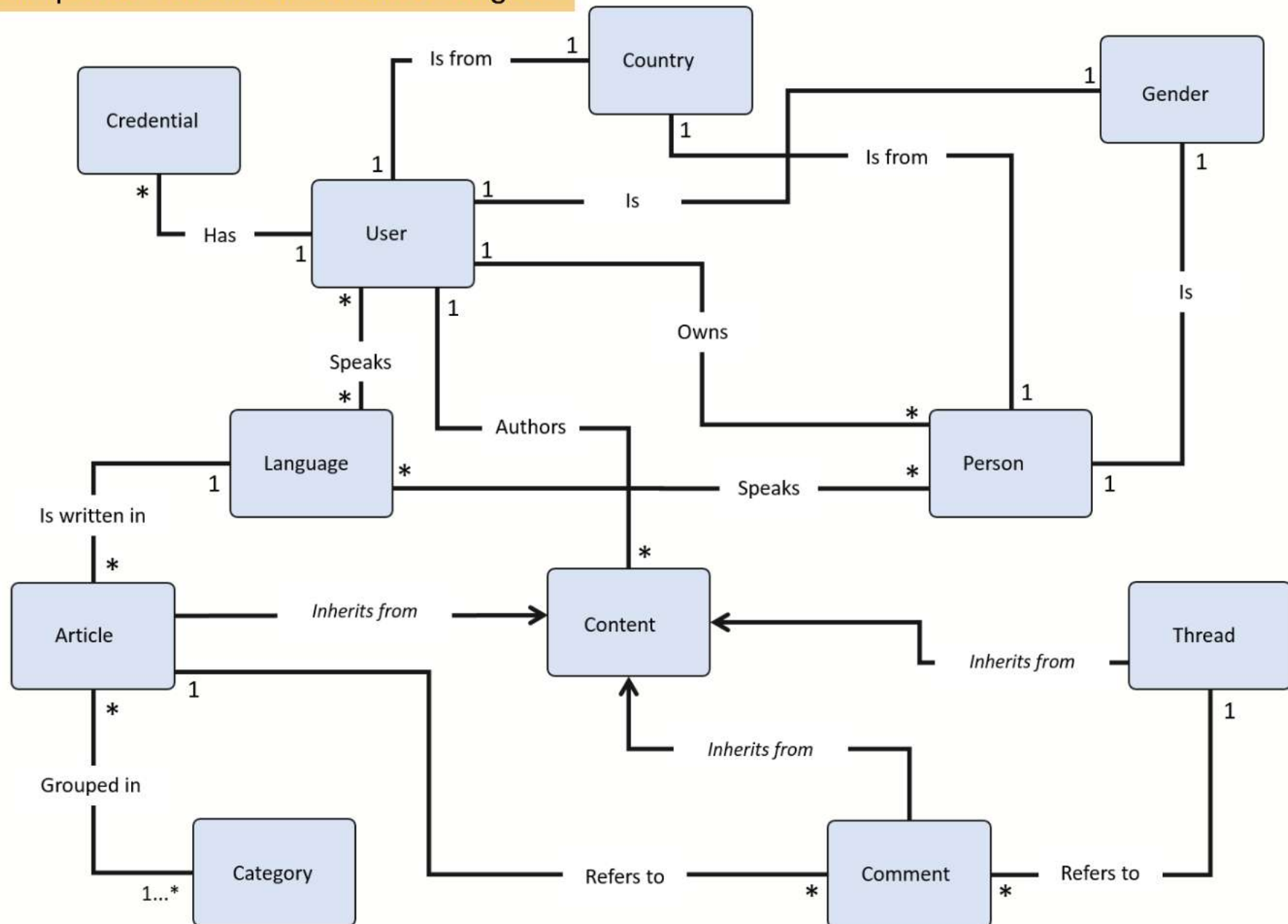
- **For** immigrants and refugees
- **Who** need better accessible information
- **The** Gakktu í bæinn
- **Is** an information sharing platform
- **That** will aggregate and streamline information important to the immigration process
 - The system will tailor information to each individuals needs
 - And the information will be created, maintained and translated by members of the community
- **Unlike** existing information sites (e.g. island.is, utl.is)
- **Our** product will present information in a proactive, nimble and user friendly way

Architecture and Design

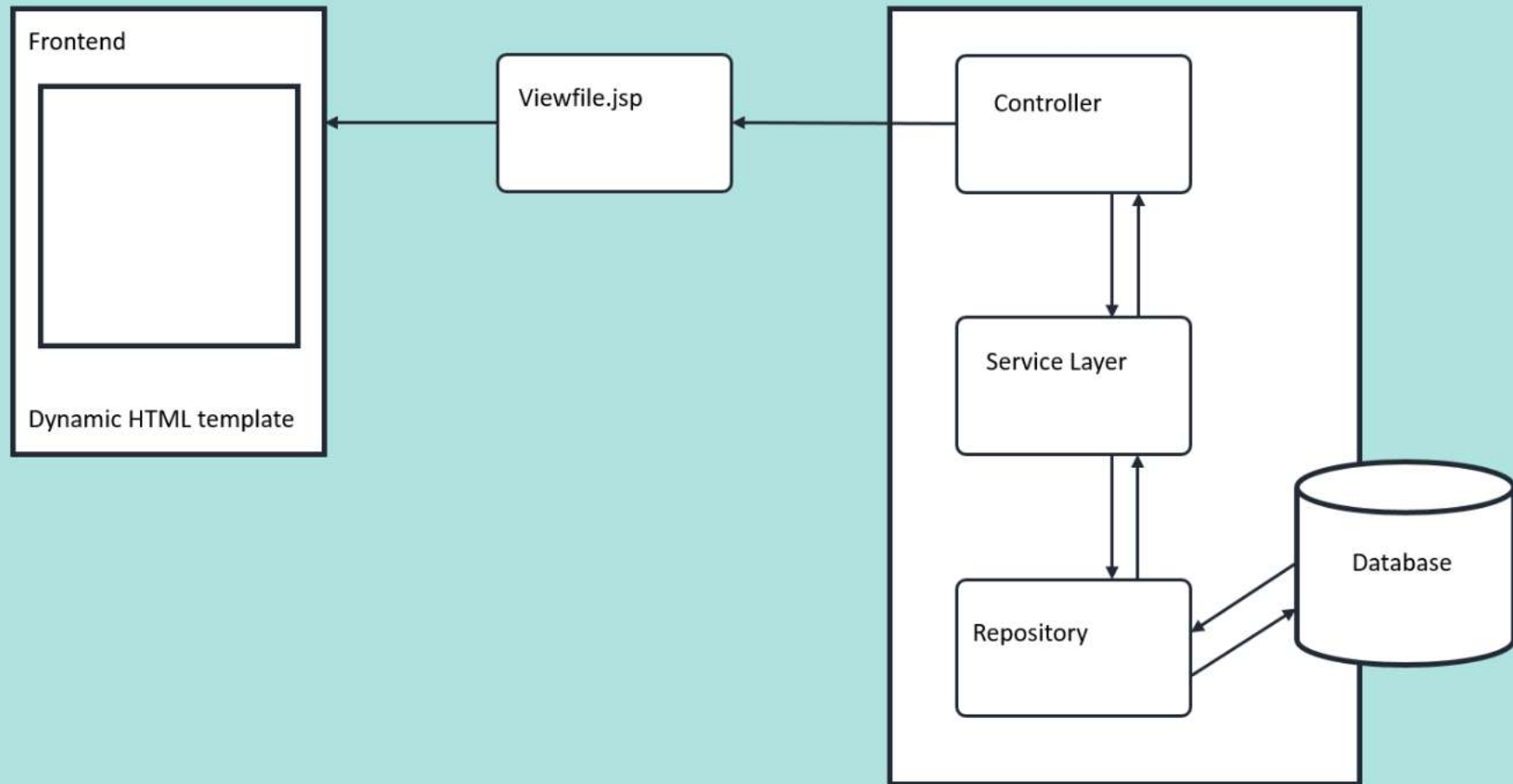
Architecture is best demonstrated with diagrams, which are intricately linked to Use Cases

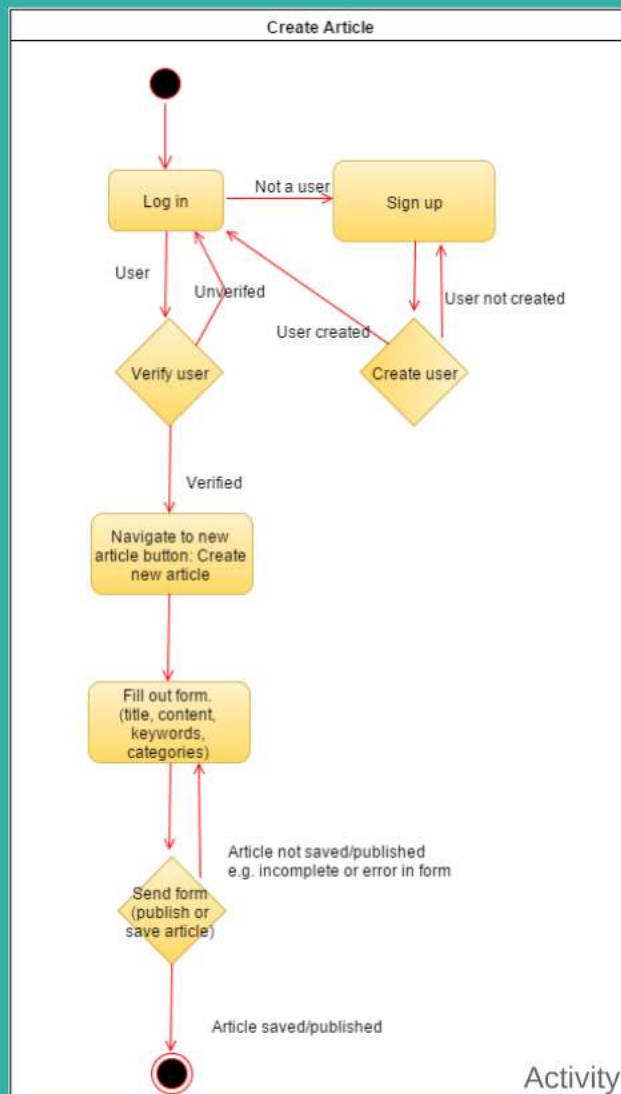
- **Class Diagram** (*simplified*)
- **Three Use Cases**
 - Write an Article (*Activity Diagram*)
 - Search for Article by Topic (*Sequence Diagram*)
 - Register as a New User (*State Diagram*)

Simplified version of our class diagram



MVC pattern in the Spring Framework

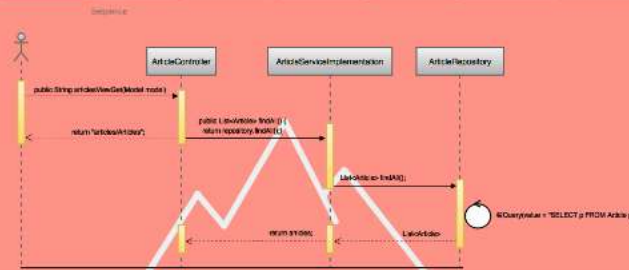




"Write an Article"

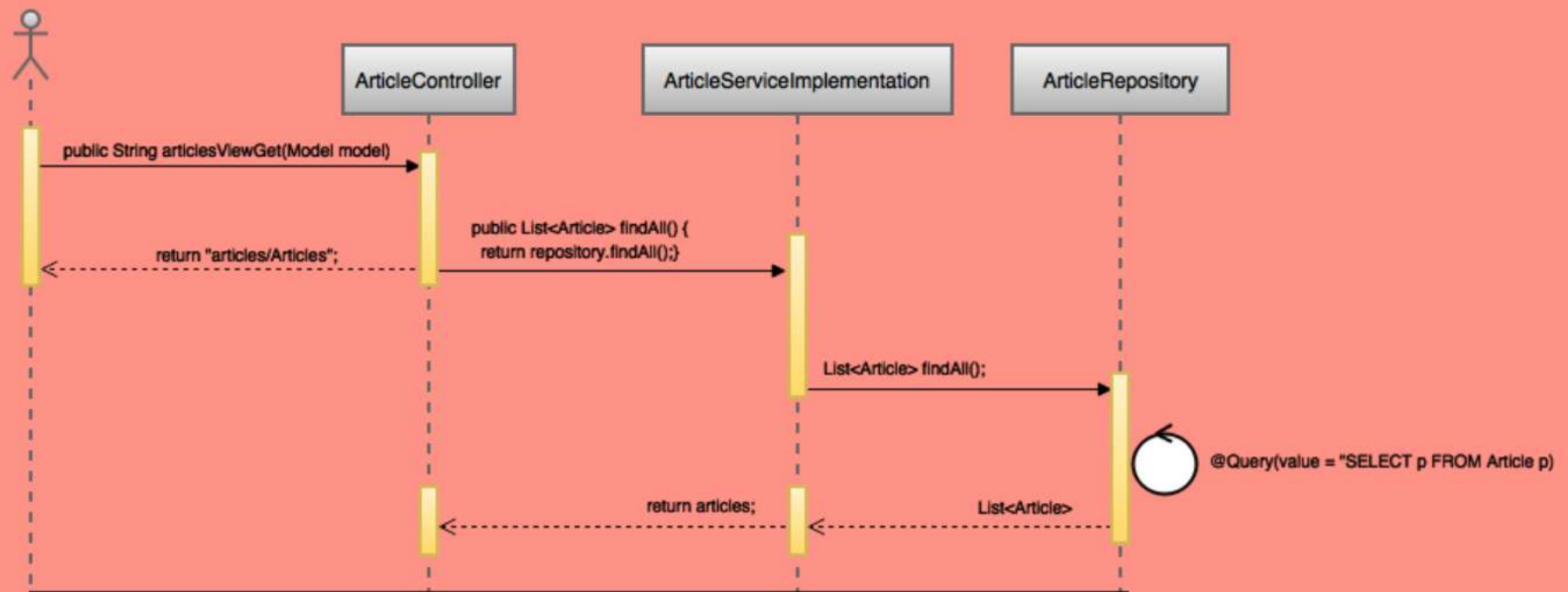


A user visits the website and inputs his/her username and password. The system verifies credentials. The user authors an article with a simple TextEditor. The system saves the article and publishes to the website.



"Search for an Article"

A User visits the website looking for articles/ information about a particular topic. She inputs a term into the search-box and clicks "Submit". The system queries the database and returns all articles related to the topic.

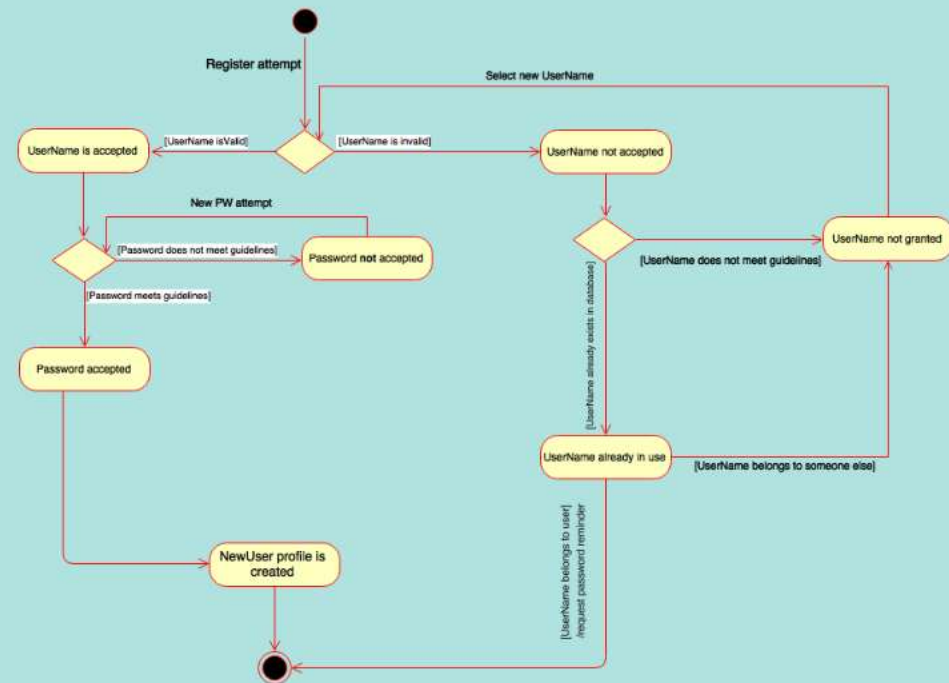


"Register a New User"

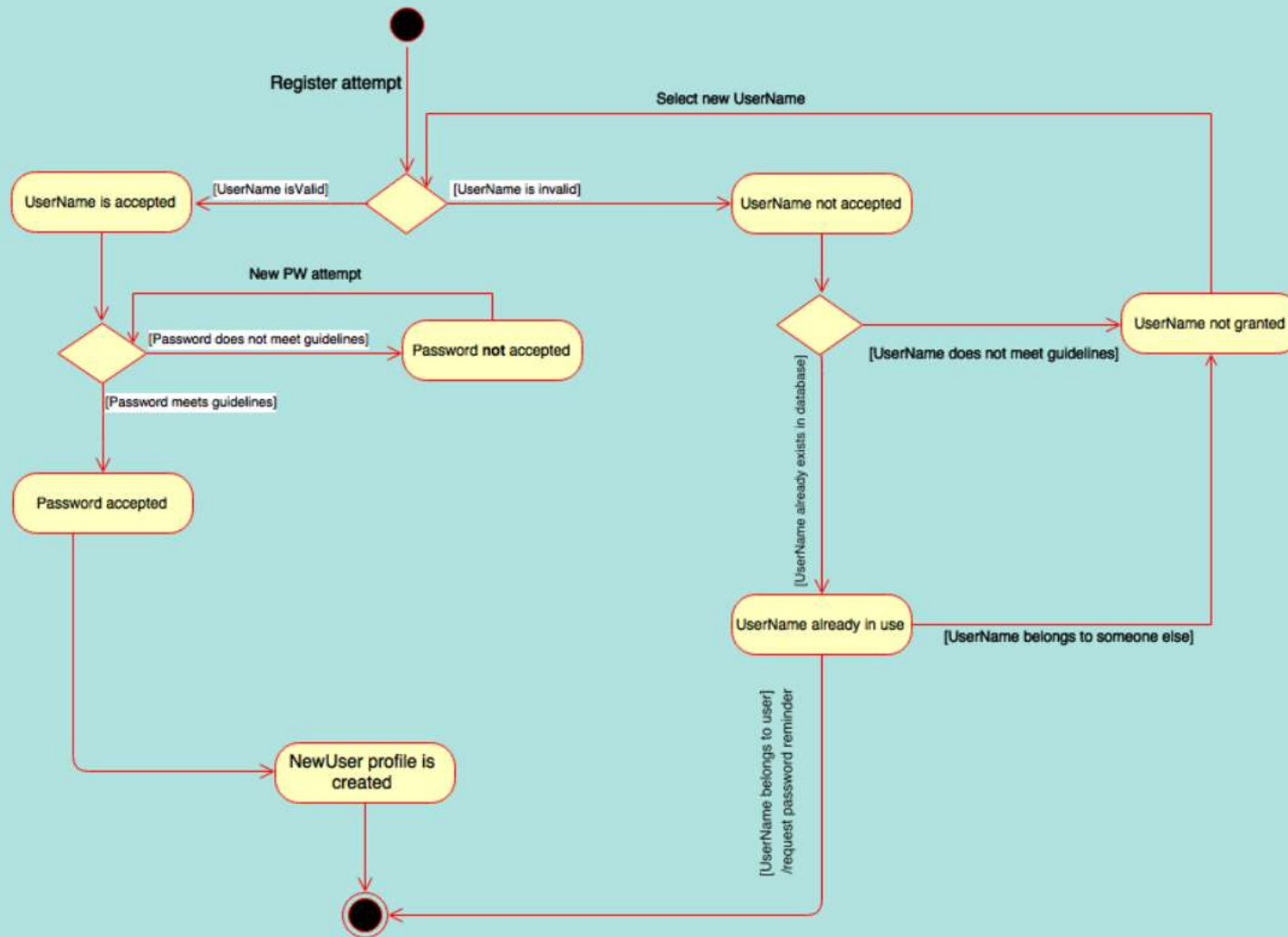
A user visits the website for the first time and decides to join our community. He creates a userName and password. The system verifies the availability and validity of the credentials. The User is registered and his data is saved in our database.



State



State



The process

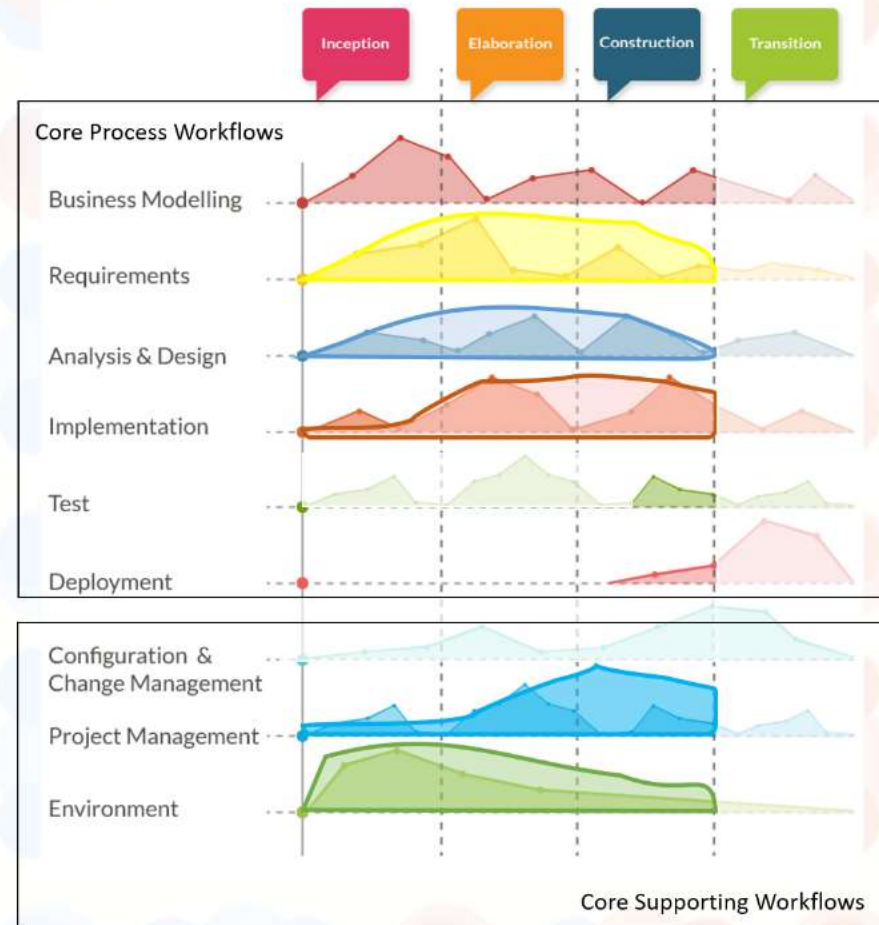
Design and development described in relation to RUP phases:

- **Inception phase** - Vision & Use Case document.
- **Elaboration phase** - Interpreting our ideas into the system architecture of the project.
- **Construction phase** - Turning the application domain from previous phase into a design model
- **Transition phase** - Beta tests and deployment.

RUP methodology - Our process



As it is supposed to be



The process as it went

Challenges

Technology:

- Steep learning curve
- Java for web applications
- Never-seen-before framework

Methodical:

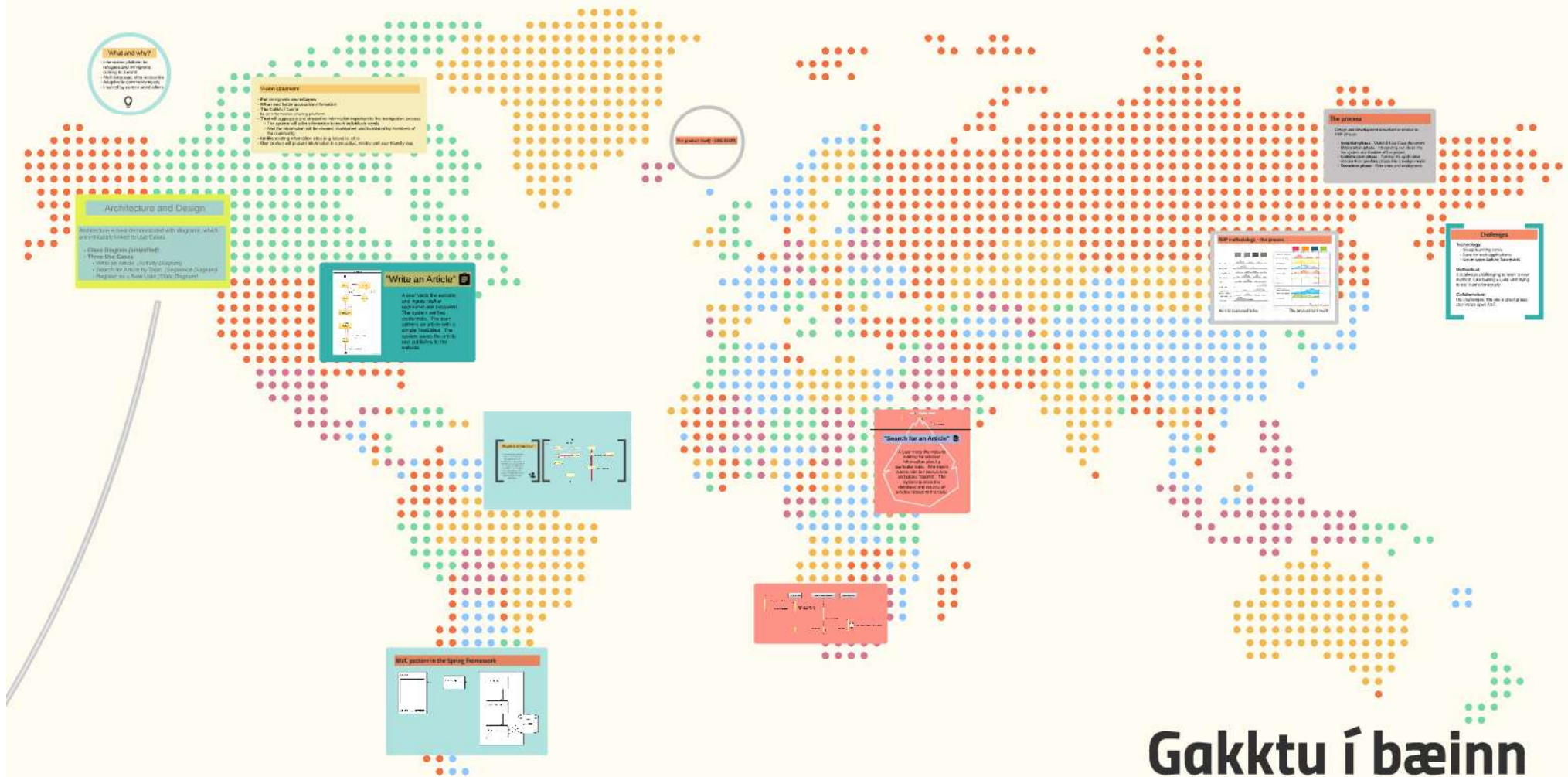
It is always challenging to learn a new method. Like baking a cake and trying to eat it simultaneously.

Collaboration:

No challenges. We are a great group.
Our initials spell ÁST.



The product itself - LIVE DEMO



Gakktu í bæinn

A community for new Icelanders

Árni Geir Úlfarsson, Sóley Lúðvíksdóttir and Troy A. Porter