



Towards a Web Platform for the FEAST Tool

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DISCOVER.



- Creating a user-friendly application
- Migrating the FEAST model's source code to a modular architecture
- Incorporate additional data sources and simulation models from appropriate sources

Proposed Architecture

ISEM

Web Portal

Angular & Postgresql



RSS



email



Intuitive UI



Reports



Mobile devices interface



Web Server

RESTful API



Jupyter Gateway

Jupyter



Scientists Modules

FEAST

Detection Module

Field Simulation Module

Other tools

Detection Module

Field Simulation Module



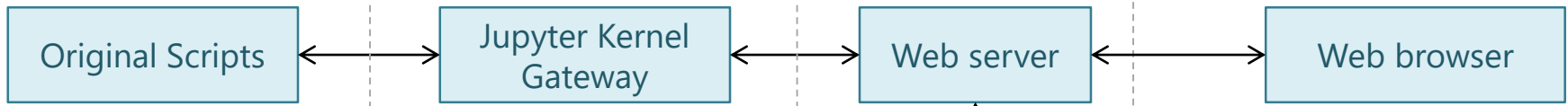
Proposed technologies

ISEM

Server-side

Client-side

ASP.NET Web API & IIS



support for over 40 programming languages, including Python, R, Julia, and Scala



Jupyter Kernel Gateway



Database

Postgresql



PostgreSQL



ASP.NET Web API

HTML, CSS and Javascript
Web Application: Angular
Mobile Application: Ionic



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- Create the DB
- Adapt FEAST
- Develop the RESTful API
- Develop the Web application
- Develop the Mobile application

Project duration: 5-6 months



Thanks for your attention

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