

Project Release Plan



SEADS Machine Learning

October 7, 2015

Sponsored by: SEADS (Smart Energy Analysis Disaggregation Systems)

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Team name: The _SEAD_is_Strong

Team members

Ali Adabi (Product Owner)

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Project Release Plan



We will continue API development for the Smart energy disaggregation project with the goal of building a front-end web app featuring data visualization.

Project Release Plan – User Stories



Sprint 1 User Story: Project Member

As a project member, I want to familiarize myself with the available tools with which I will improve the system.

Also as a project member, I want to increase the size and scope of the database API.

Sprint 2 User Story: Front End Developer

As a Web Designer, I want more API functionality to improve user experience.

Sprint 3 User Story: Customer

As a homeowner, I want to access and optimize my energy profile.

Project Release Plan – Architecture



We will begin with an analysis of the existing project API to determine exactly how we can expand it to facilitate data visualization and front-end web development.

Project Release Plan – Challenges/Risks



Challenge/Risk 1 Unfamiliarity with Python, GO, database systems programming.

Challenge/Risk 2 The existing code base is poorly organized/ lacks code coverage of unit tests

Challenge/Risk 3 Difficulty in organizing sprints into efficient, self-contained development cycles.

Project Release Plan – Technologies



Technology 1 Existing SEADS Microcontroller/API/DB/Frontend

- SEADS <https://github.com/seadssystem>
- Django <https://www.djangoproject.com/>

Technology 2 Javascript: D3.js for visualization

- D3.js <https://github.com/mbostock/d3>

Technology 3 Possible rewrite of API in Go and Squirrel

- Squirrel <https://github.com/Masterminds/squirrel>
- Go <https://golang.org/>