dods

Höhere technische Bundeslehr- und Versuchsanstalt Villach

Ausbildungszweig
Informationstechnologie – Netzwerktechnik

SNEK Network for Engineers and Knowledged
social network for developer

Erstellt von

Aichner Christian, Kleber Florian
Pinterics David, Schett Nico
am 12. August 2020

Betreut und beurteilt von
Prof. DI Reiner Rabensteiner

Inhaltsverzeichnis

1 Enterprise Connector
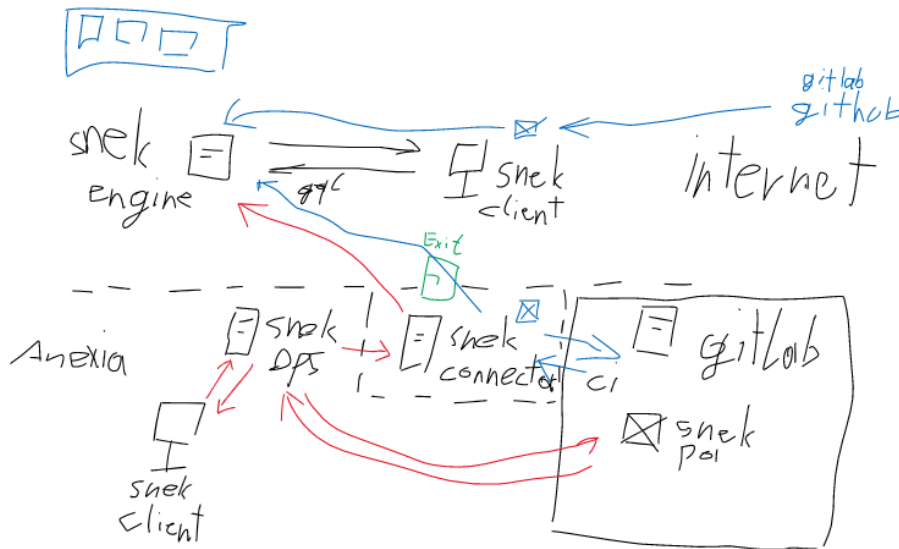
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Is your feature request related to a problem? Please describe.
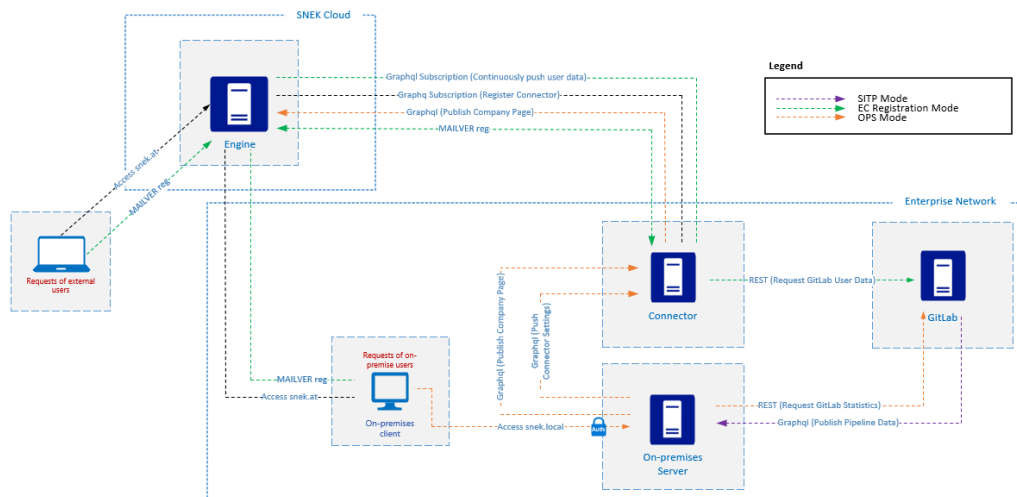The enterprise connector should be used to enable registration of users from non public instances.

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Requirements

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Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Thu, 23 Jul 2020 13:47:33 +0200
Requirements Fulfilled	Mon, 27 Jul 2020 14:07:38 +0200
Feature Reviewed	Mon, 27 Jul 2020 14:11:25 +0200
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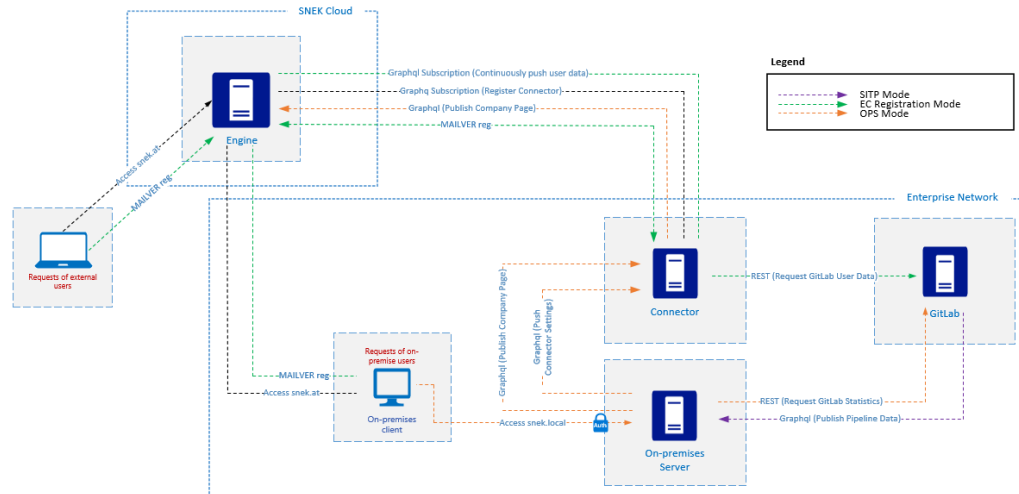
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☑ Migrate to Bifrost GraphQL API Concept. #11
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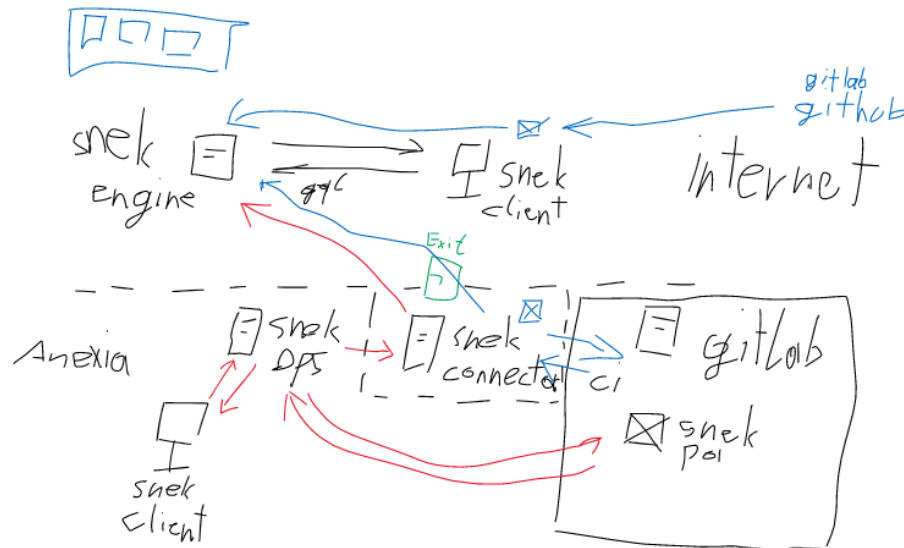|	
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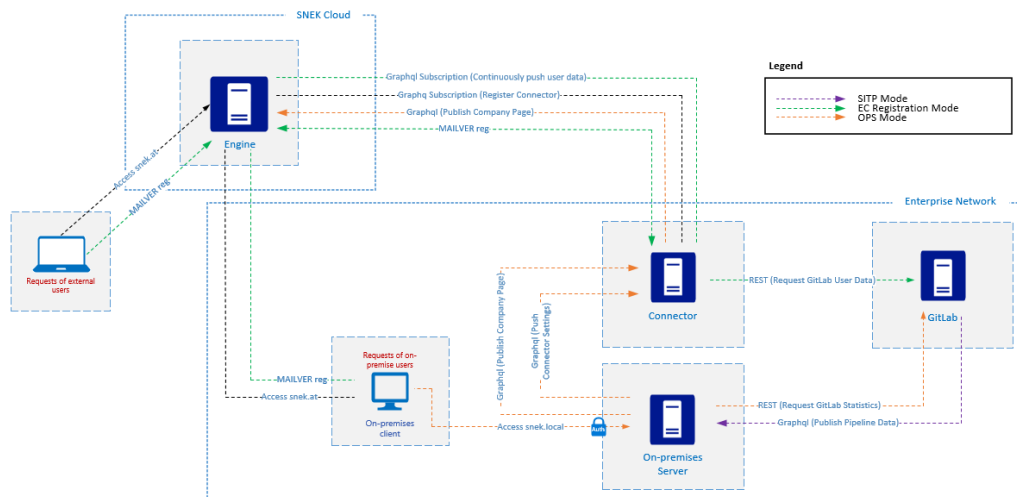**Is your feature request related to a problem? Please describe.**

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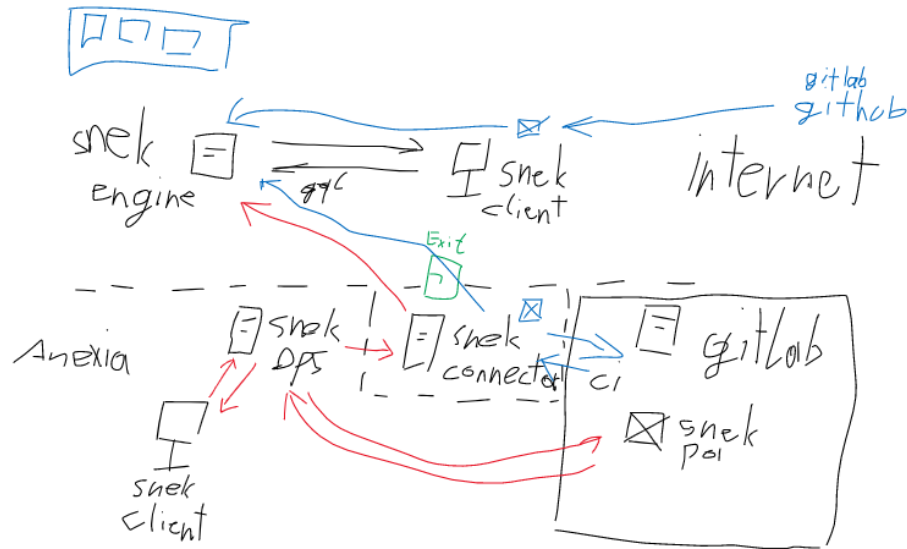| Feature Milestones	Completed at in RFC 2822 format
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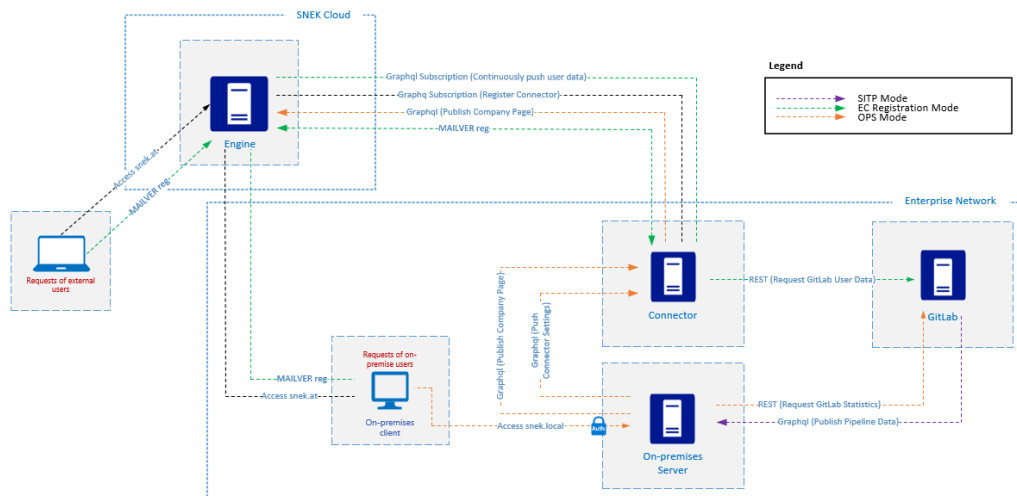
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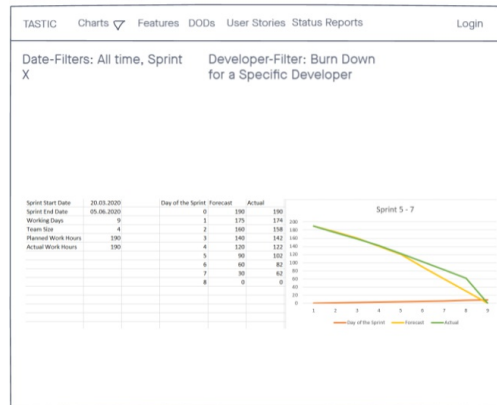The landing page should feature the latest informations.

Charts Pages

The chart tab should feature the throughput and burn down charts.

Features Page

The feature page should provide download link to PDF created by #1.

Features Page

TASTIC Charts ▽ Features DODs User Stories Status Reports	Login

Search | Filter

Created on 30.07.2020 | Download
Created on 29.07.2020 | Download
Created on 28.07.2020 | Download
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Definition of Done Page

The definition of done page should provide download link to PDF created by #1.

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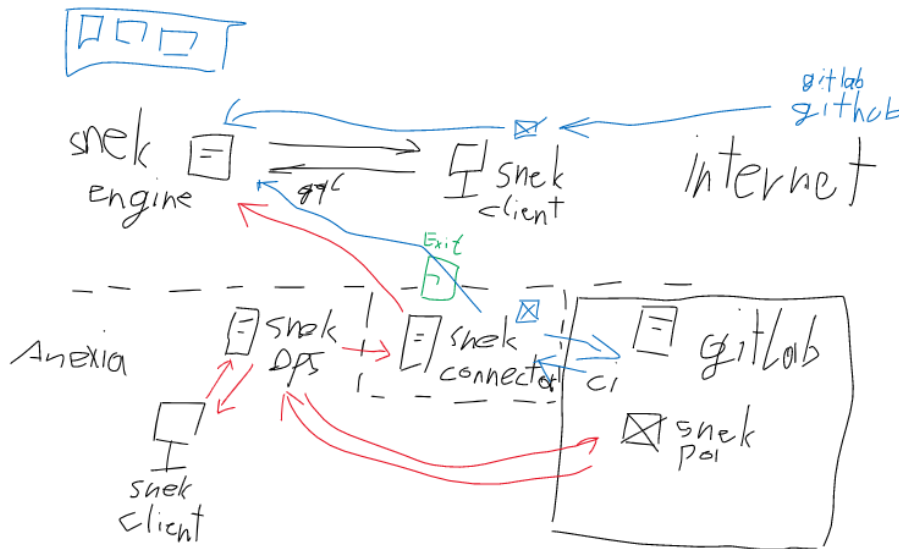
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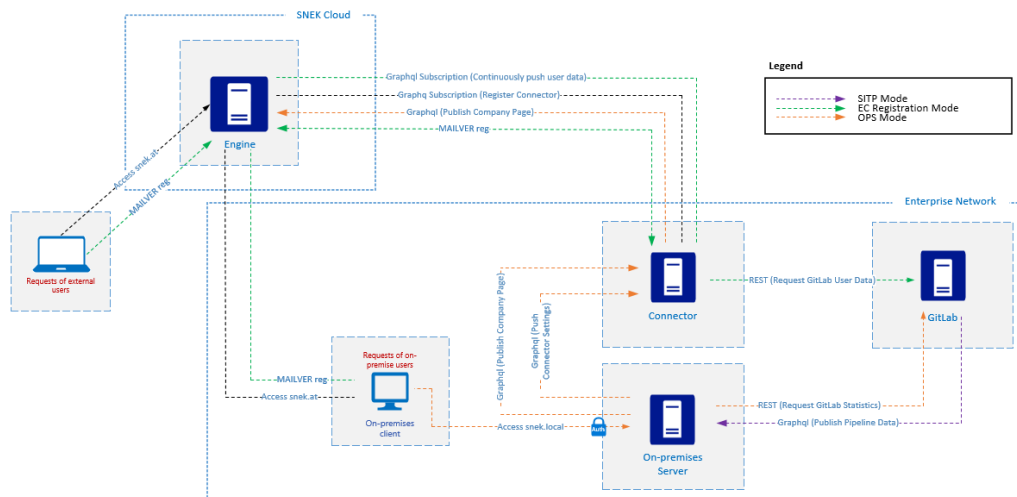The enterprise connector should be used to enable registration of users from non public instances.

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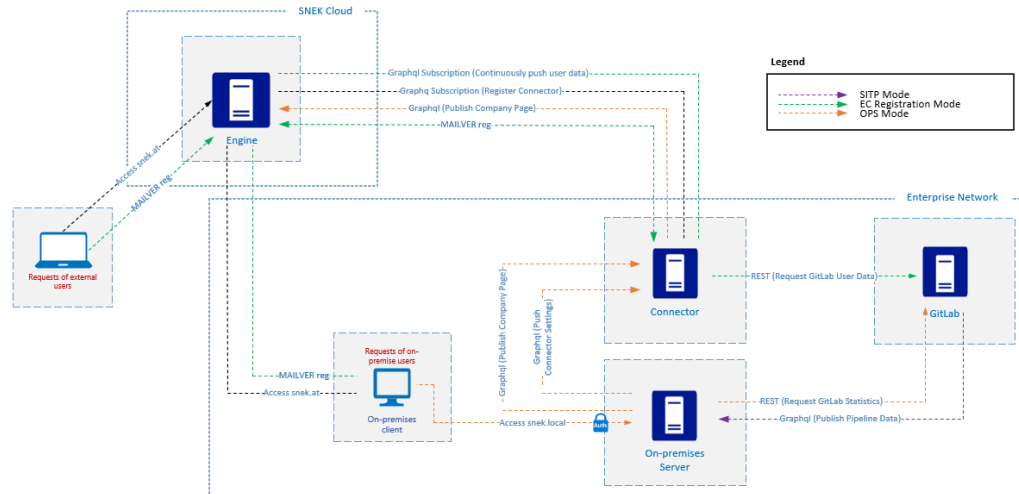
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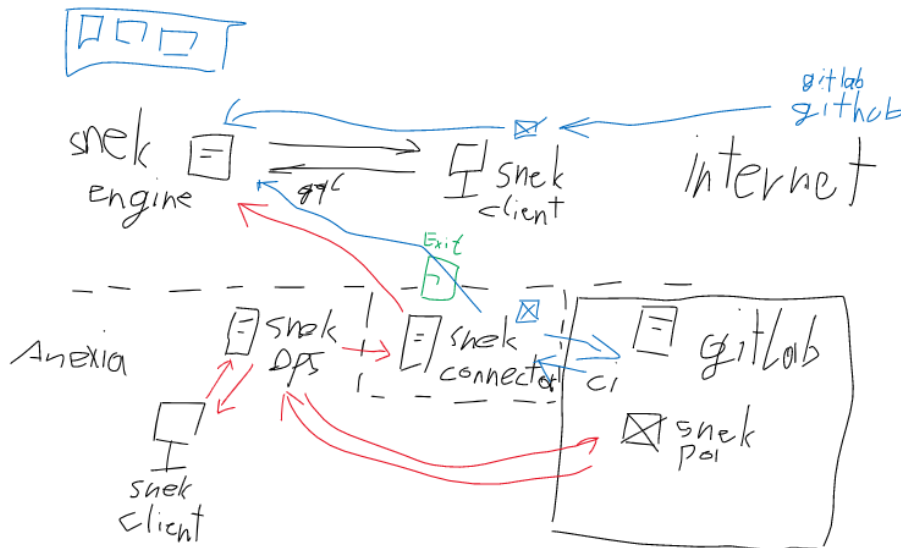|	
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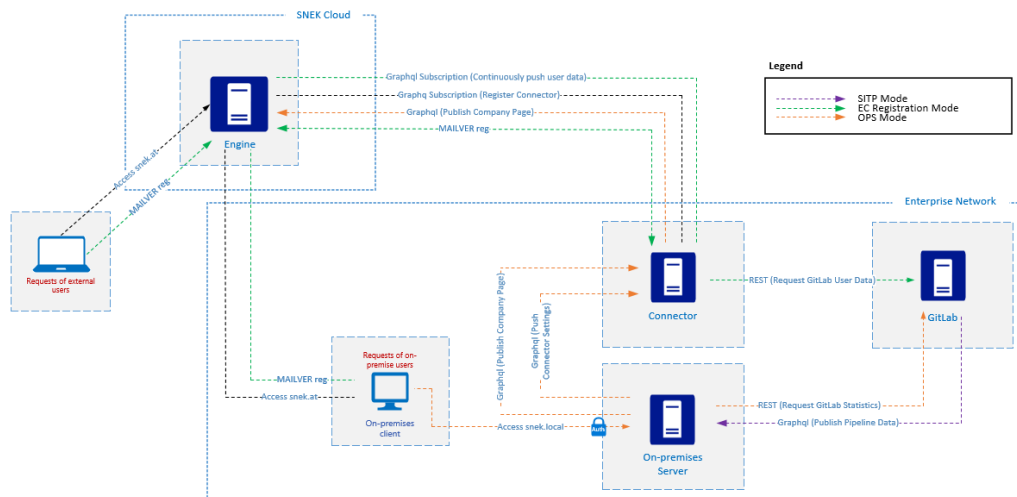**Is your feature request related to a problem? Please describe.**

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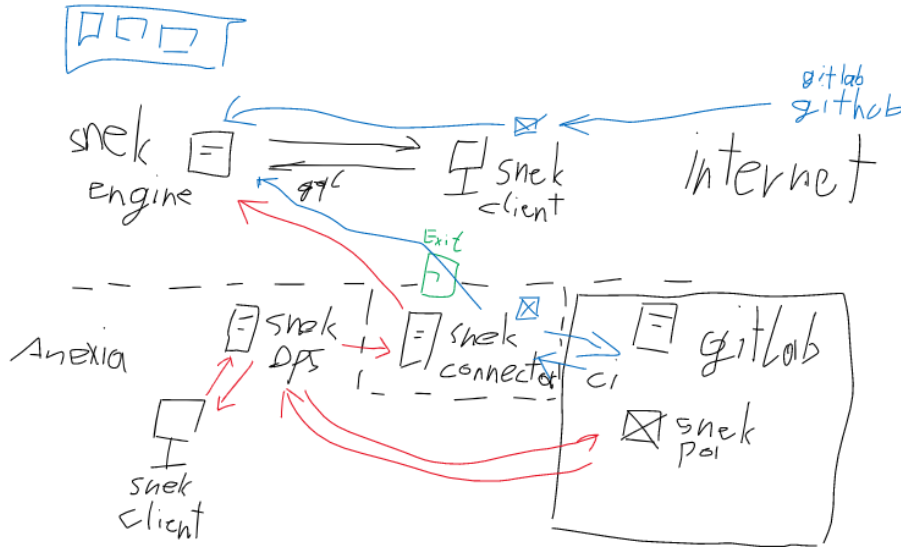| Feature Milestones	Completed at in RFC 2822 format
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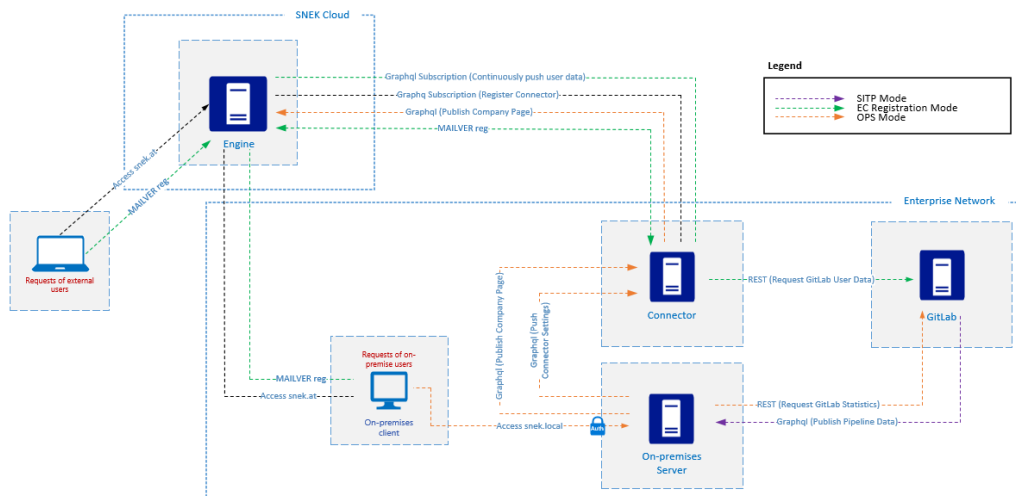
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3 Basic On-Premise Server

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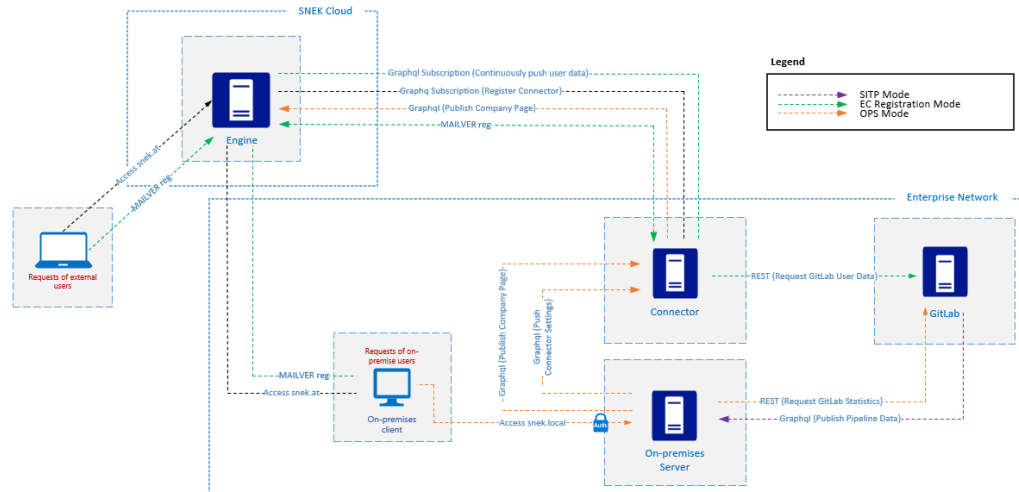
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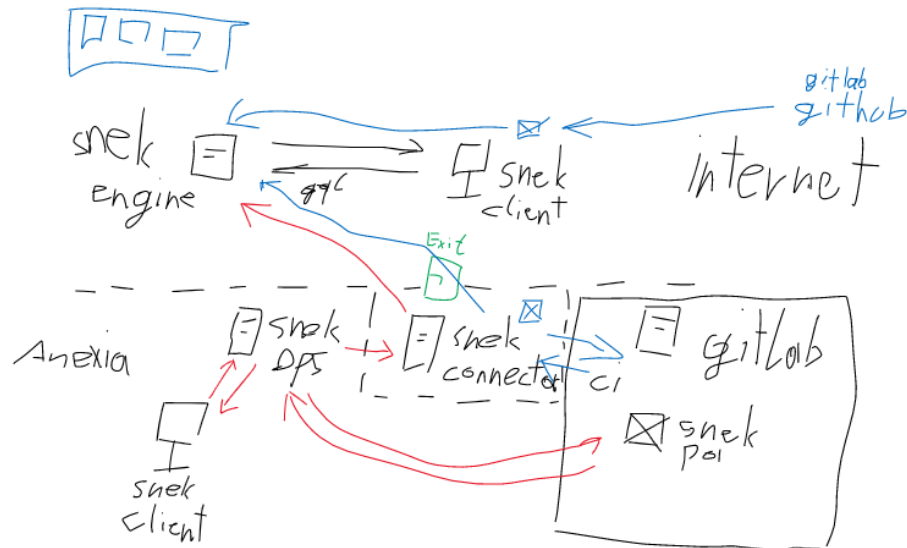|	
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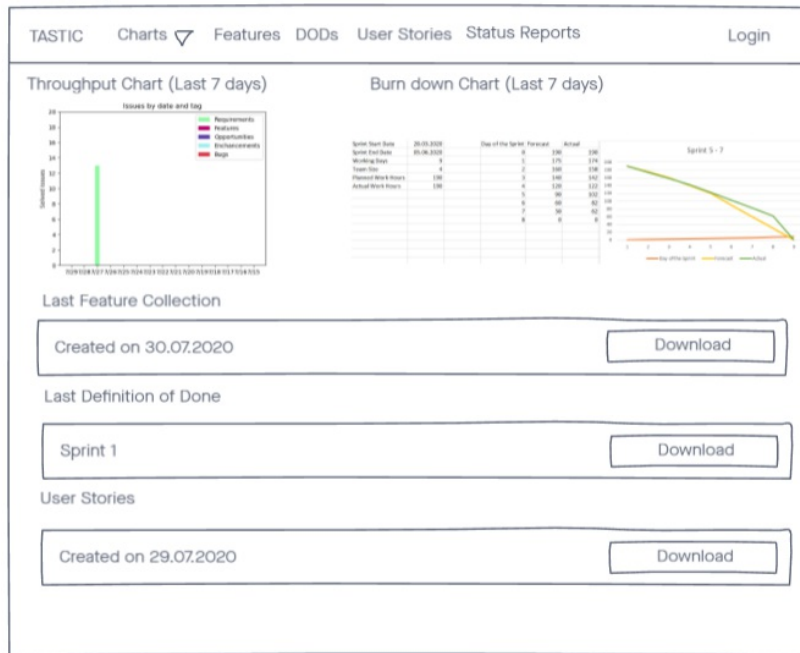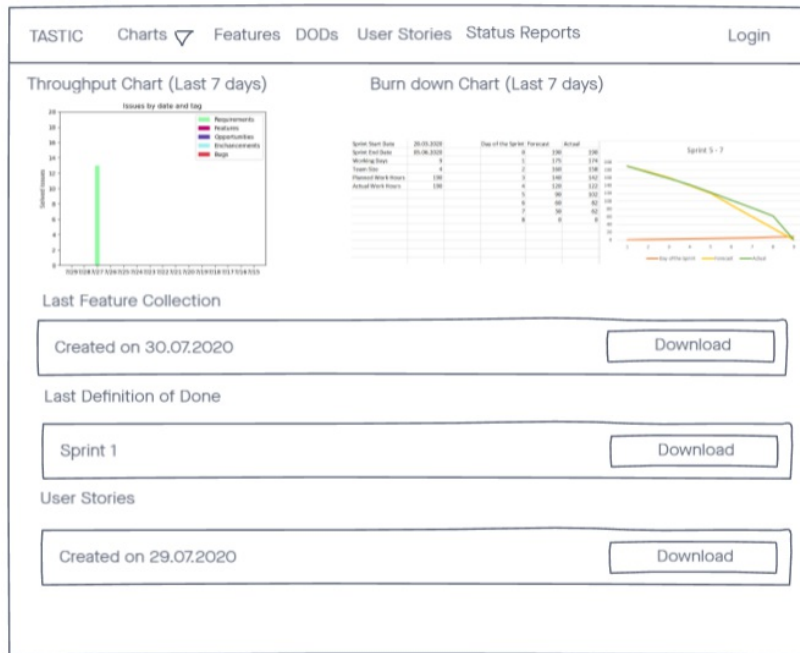
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The chart tab should feature the throughput and burn down charts.

Throughput Chart Page
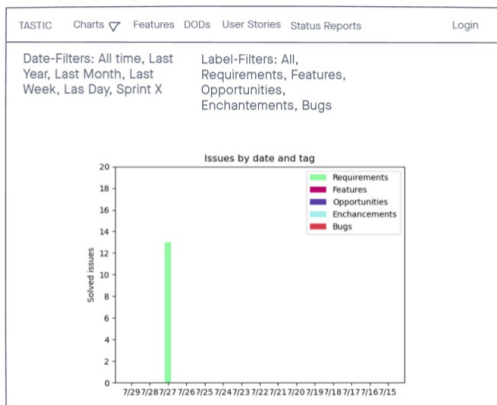
Burn Down Chart Page

Features Page

The feature page should provide download link to PDF created by #1.

Features Page

Definition of Done Page

The definition of done page should provide download link to PDF created by #1.

User Stories Page

The user stories page should provide download link to PDF created by #1.

User Stories Page

Status Report Page

The status report page should provide download links to PDFs uploaded by logged in users.

Status Reports Page

Requirements

- ☑ TASTIC Throughput Chart Prototype. snek-at/tastic#4
- ☑ Django Template for TASTIC engine. #3

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Wed, 29 Jul 2020 18:22:28 +0200
Requirements Fulfilled	Wed, 29 Jul 2020 18:25:50 +0200
Feature Reviewed	Thu, 30 Jul 2020 14:55:20 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
Implementation Reviewed	
Implementation Deployed	

User Story

As project manager I want to have the possibility to convert issue from GitHub to PDF files, in order to provide the PDF file to the clients.

Is your feature request related to a problem? Please describe.

Currently it is not possible to convert issues from GitHub to PDFs.

Describe the solution you'd like

A script should be created that is able to fetch issues and convert them to PDFs. The created PDFs should be stored on a web service to store the file history.

Solutions that could be implemented:

- GitHub API Client
- Latex Template
- Pandoc Templates

Requirements

☑ Prototype Issues to PDF. snek-at/tastic#2

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Wed, 29 Jul 2020 18:16:10 +0200
Requirements Fulfilled	Wed, 29 Jul 2020 18:25:27 +0200
Feature Reviewed	Wed, 29 Jul 2020 18:49:22 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
Implementation Reviewed	
Implementation Deployed	

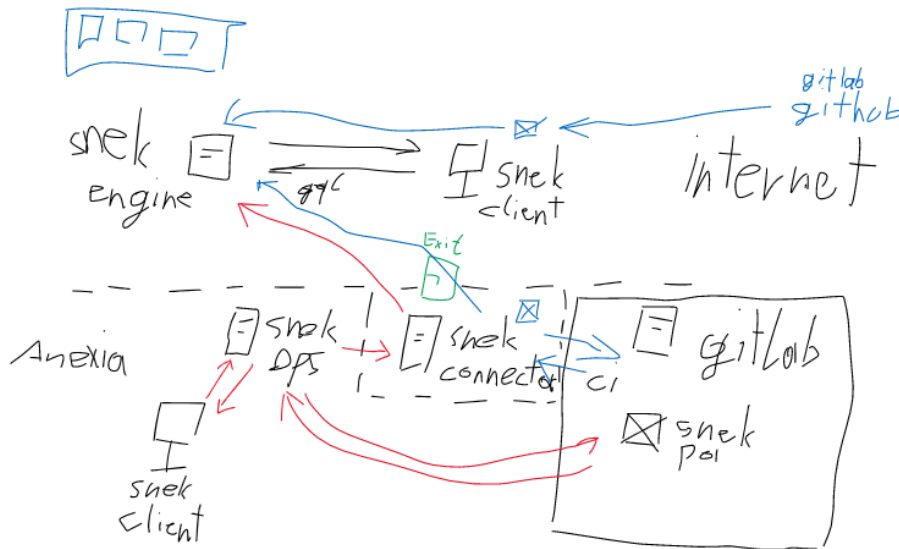# 4 Snek in the Pipeline

User Stories

- As user I want to be able to register on SNEK by using my company GitLab account, in order to visualize my contributions.

Is your feature request related to a problem? Please describe.
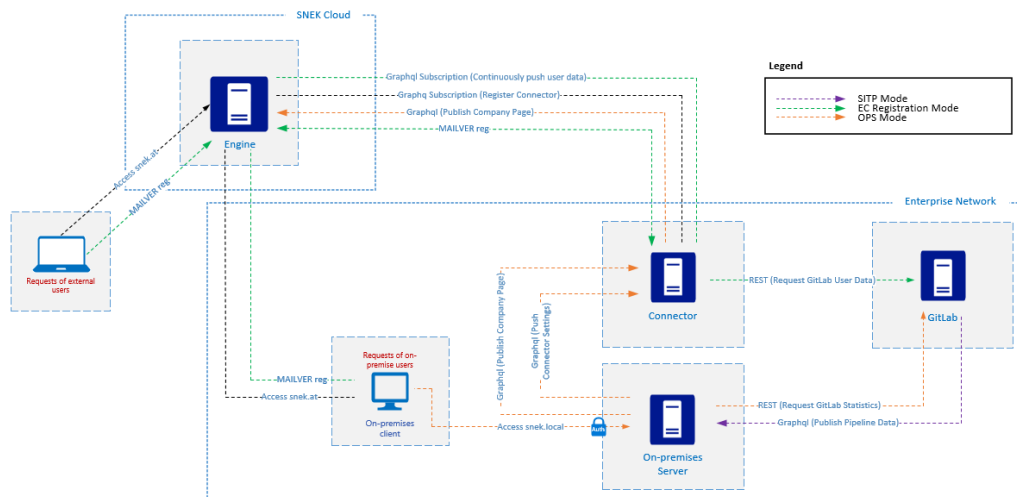The enterprise connector should be used to enable registration of users from non public instances.

Describe the solution you'd like
The blue path describes the basic solution for the enterprise connector.

The code should be kept as small as possible to make it easy for others to read through it.

Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

- Verification E-Mail (https://github.com/snek-at/engine):
    - Update registration mutation
- Update Database (https://github.com/snek-at/engine):

- - RAW field
    - Enterprise Page
  - Update API (https://github.com/snek-at/engine):
    - RAW mutation
    - Enterprise Page creation
  - Configure GItLab:
    - Add User (SNEKman)
  - API Endpoint for OPS

Requirements

- ☑ Enterprise Connector Concept. #2
- ☑ Local GitLab Server for Enterprise Connector. #3
- ☑ Template Repository for Flask. #4
- ☑ Update the coding Guideline for Python. snek-at/tonic#6

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Thu, 23 Jul 2020 13:47:33 +0200
Requirements Fulfilled	Mon, 27 Jul 2020 14:07:38 +0200
Feature Reviewed	Mon, 27 Jul 2020 14:11:25 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
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Implementation Deployed	

User Stories

- As company I want to be able to publish selected private data on SNEK, to display achievements and statistics that I reached locally to the public.

- As user I want to be able to register on SNEK by using my company GitLab account, in order to visualize my contributions.
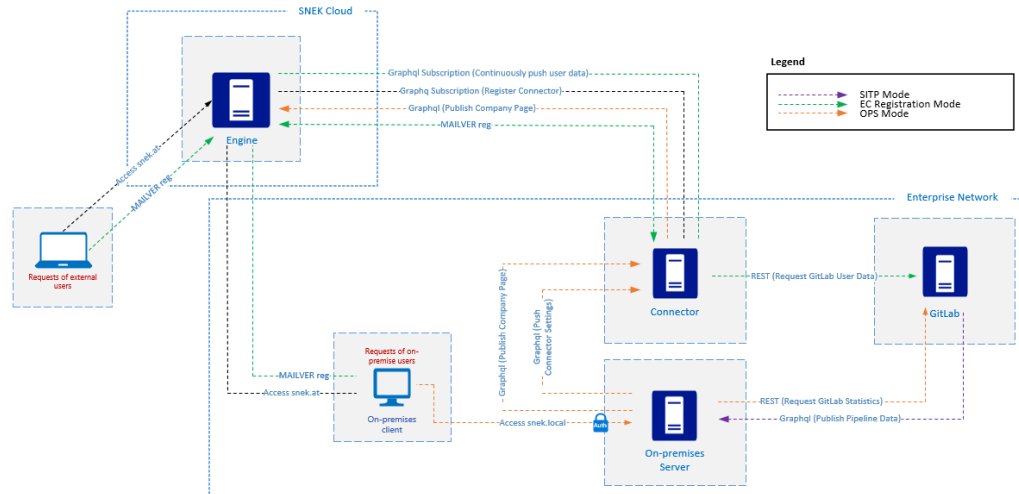
Is your feature request related to a problem? Please describe.
Currently it is not possible to publish data that was collected inside a company network to SNEK.

Describe the solution you'd like
The current engine should be migrated to Bifrost, to provide the feature for companies to publish their collected data.

Engine - EC - OPS - SITP Workflow Overview

Solutions that could be implemented:

- Move and adjust:
    - Esite registration
    - Esite customer
    - Esite profile
    - Esite caching
    - Esite gift
    - Esite survey
- Adjust SNEK Client
- Add:
    - Model for Company page
    - Form for Company page
    - Proxy model for Company & Normal user
    - Add subscription based hook

Requirements

☑ Migrate to Bifrost GraphQL API Concept. #11
☑ Workflow Meeting. #12

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Wed, 29 Jul 2020 17:59:42 +0200

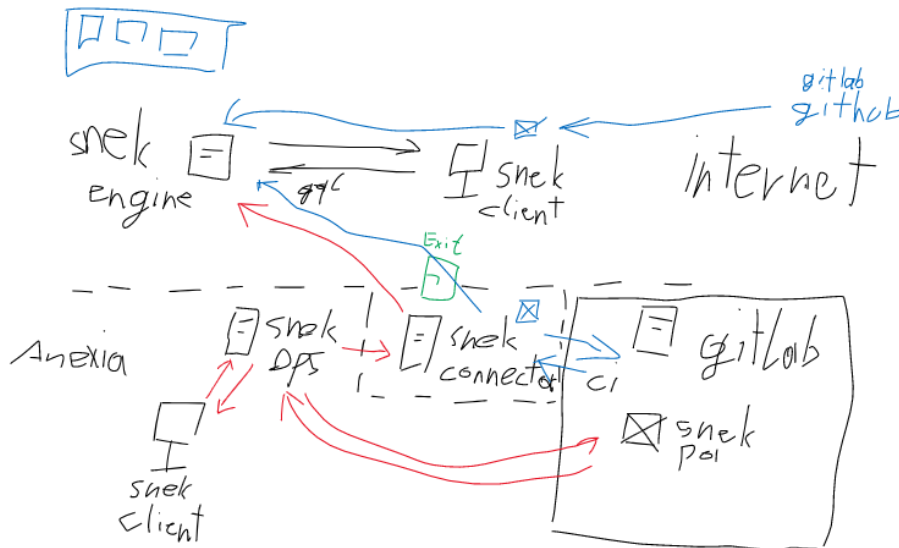|	
Requirements Fulfilled	Wed, 29 Jul 2020 18:07:47 +0200
Feature Reviewed	Wed, 29 Jul 2020 18:48:16 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
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Implementation Deployed	

User Stories

- As a company I want to be able to analyze my employees contributions without displaying the results to the public, in order to keep private information private.

Is your feature request related to a problem? Please describe.
Many companies want an in-depth analysis of their data. However, they are not ready to publish all of it. By using an on-premis server it is possible to store and illustrate analysis data internally only and to publish (if wanted) a self-defined company page on "https://snek.at/enterprise/COMPANY".

Describe the solution you'd like
The red path illustrates the flow for the on-premise server.

Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

- Connect with Enterprise Connector (https://github.com/snek-at/ec)

- Database models for:
  - User
  - Company page
  - Data
- API for:
  - Company Page
  - SNEK in the Pipeline
- GQL Client for:
  - SNEK Connector
  - GitLab API
- Configure GitLab:
  - Add User (SNEKman)

Requirements

- ☑ One-Premise Server Concept. #2
- ☑ Template Repository for Wagtail. #3
- ☑ Local GitLab Server for On-Premise Server. #4
- ☑ Update the coding Guideline for Python. snek-at/tonic#6

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Thu, 23 Jul 2020 16:25:44 +0200
Requirements Fulfilled	Mon, 27 Jul 2020 14:12:42 +0200
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Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
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Implementation Deployed	

User Stories

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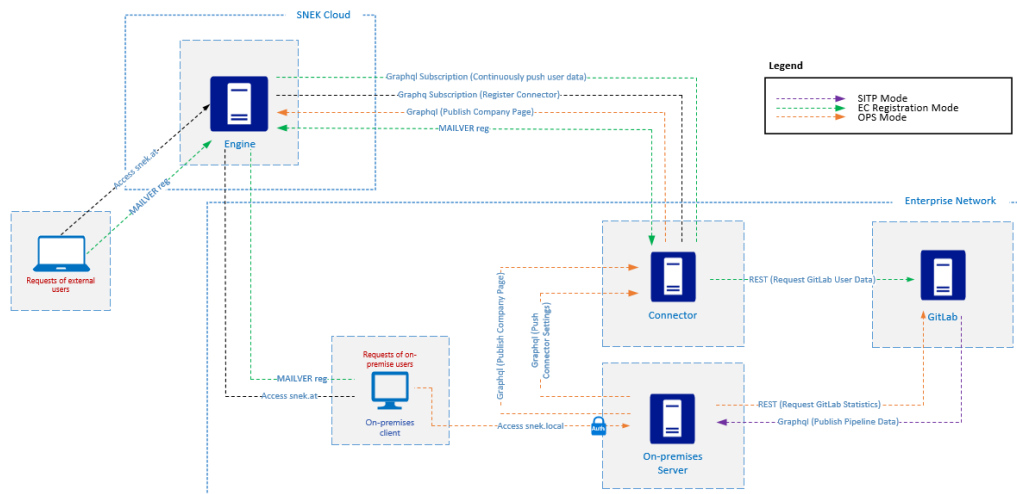
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Snek in the Pipeline should be a plugin for CI/CD pipelines to enable in depth source code analyzes.

Describe the solution you'd like

Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

- Pipeline analyzer
- GQL Client for:
  - OPS (https://github.com/snek-at/ops)

Requirements

☑ Snek in the Pipeline Concept. #2

☑ Template Repository for Go. #3

☑ Local GitLab Server for Pipeline. #4

☑ Pipeline Knowledge. #5

☑ Update the coding Guideline for Go. snek-at/tonic#7

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Thu, 23 Jul 2020 16:38:31 +0200
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Feature Reviewed	Mon, 27 Jul 2020 14:06:18 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
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User Story

As a project manager I want to have all important project information at one place, in order to make project monitoring as efficient as possible.

Is your feature request related to a problem? Please describe.

Currently it is not possible to monitor the project easily.

Describe the solution you'd like

A web services should be created that displays collected information.

Solutions that could be implemented:

Landing Page

The landing page should feature the latest informations.

Charts Pages

The chart tab should feature the throughput and burn down charts.

Features Page

The feature page should provide download link to PDF created by #1.

Features Page

Definition of Done Page

The definition of done page should provide download link to PDF created by #1.

Definition of Done Page

User Stories Page

The user stories page should provide download link to PDF created by #1.

User Stories Page

Status Report Page

The status report page should provide download links to PDFs uploaded by logged in users.

Status Reports Page

Requirements

- ☑ TASTIC Throughput Chart Prototype. snek-at/tastic#4
- ☑ Django Template for TASTIC engine. #3

Milestones

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User Story

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Solutions that could be implemented:

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Requirements

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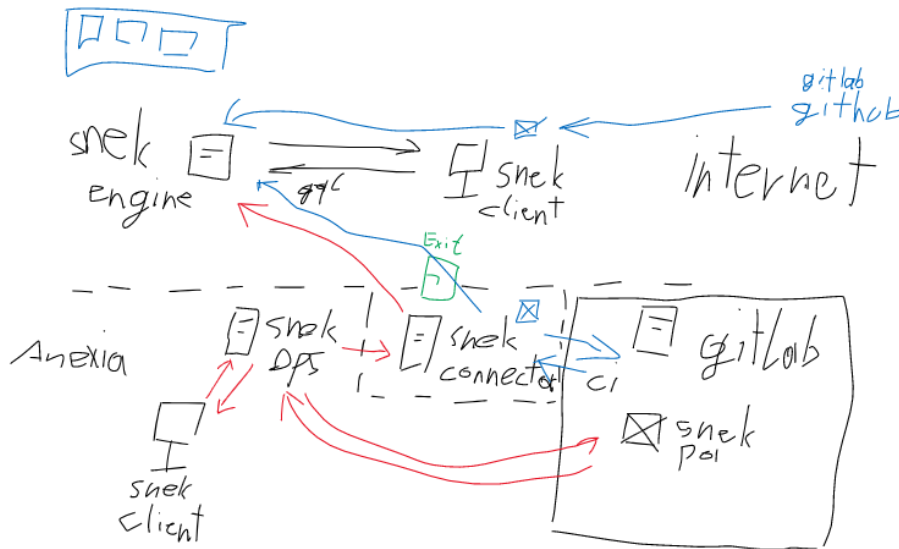# 5 TASTIC Engine

User Stories

- As user I want to be able to register on SNEK by using my company GitLab account, in order to visualize my contributions.

Is your feature request related to a problem? Please describe.
The enterprise connector should be used to enable registration of users from non public instances.
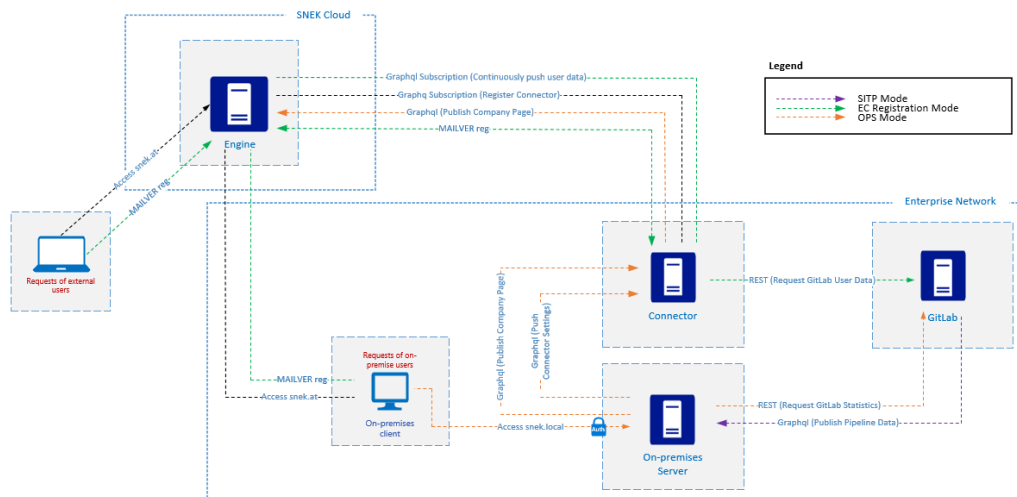
Describe the solution you'd like
The blue path describes the basic solution for the enterprise connector.

The code should be kept as small as possible to make it easy for others to read through it.

Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

- Verification E-Mail (https://github.com/snek-at/engine):
  - Update registration mutation
- Update Database (https://github.com/snek-at/engine):

- - RAW field
  - Enterprise Page
- Update API (https://github.com/snek-at/engine):
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  - Enterprise Page creation
- Configure GItLab:
  - Add User (SNEKman)
- API Endpoint for OPS

Requirements

☑ Enterprise Connector Concept. #2

☑ Local GitLab Server for Enterprise Connector. #3

☑ Template Repository for Flask. #4

☑ Update the coding Guideline for Python. snek-at/tonic#6

Milestones

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User Stories

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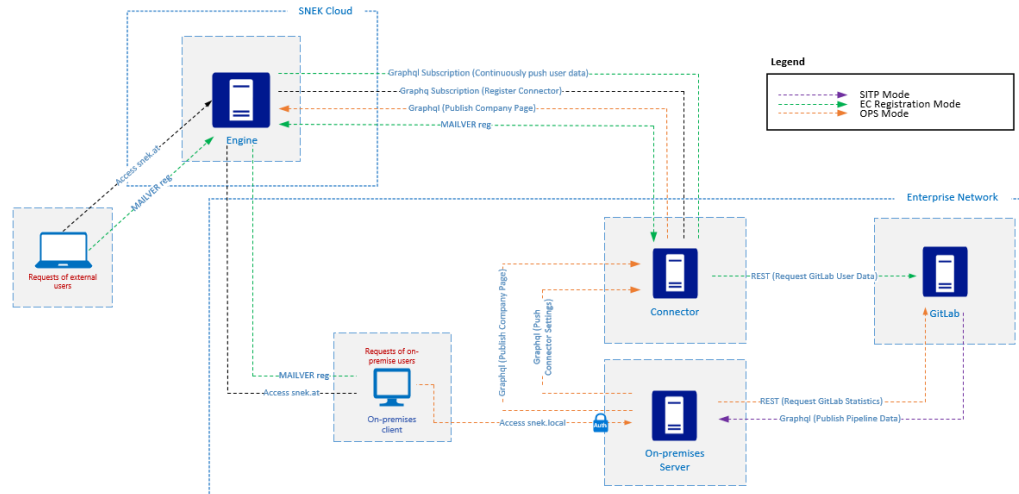
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Currently it is not possible to publish data that was collected inside a company network to SNEK.

Describe the solution you'd like
The current engine should be migrated to Bifrost, to provide the feature for companies to publish their collected data.

Engine - EC - OPS - SITP Workflow Overview

Solutions that could be implemented:

- Move and adjust:
    - Esite registration
    - Esite customer
    - Esite profile
    - Esite caching
    - Esite gift
    - Esite survey
- Adjust SNEK Client
- Add:
    - Model for Company page
    - Form for Company page
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Requirements

☑ Migrate to Bifrost GraphQL API Concept. #11
☑ Workflow Meeting. #12

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Wed, 29 Jul 2020 17:59:42 +0200

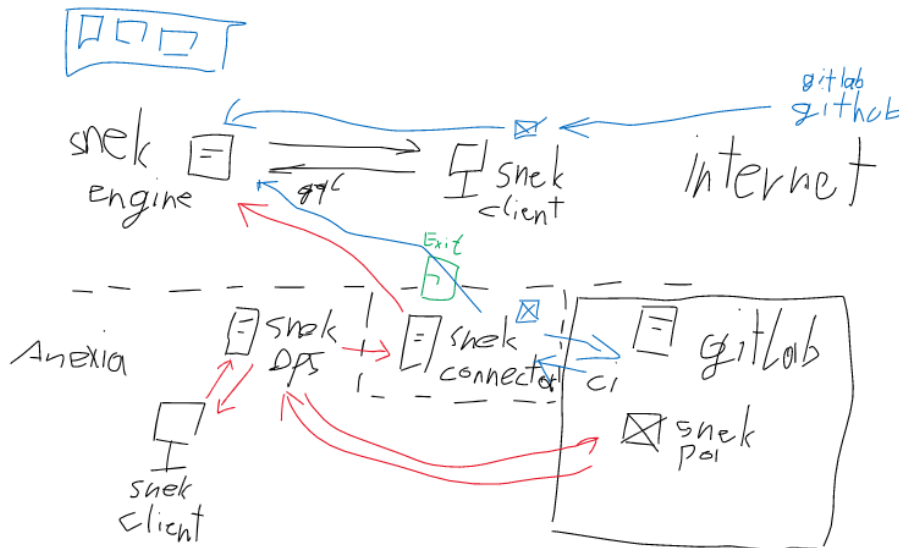|	
Requirements Fulfilled	Wed, 29 Jul 2020 18:07:47 +0200
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Opportunity Milestones	**Completed at in RFC 2822 format**
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User Stories

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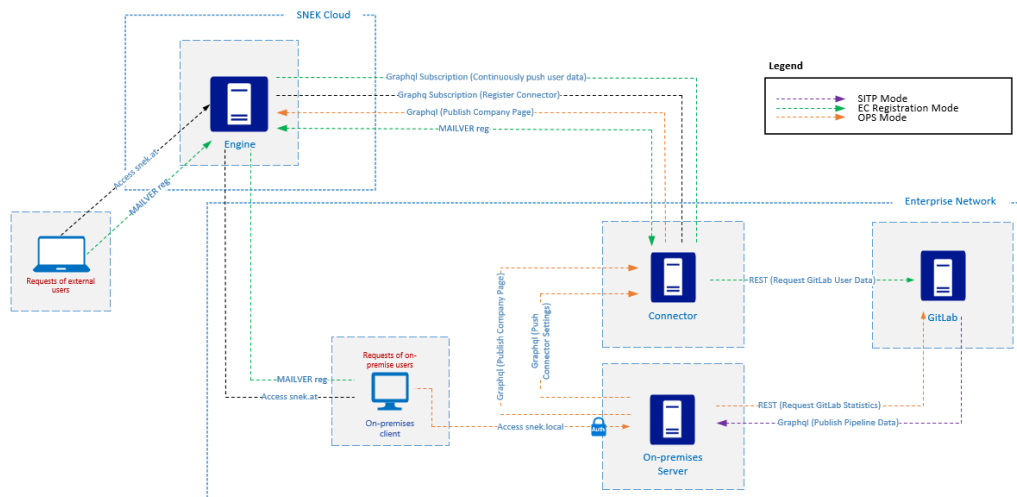**Is your feature request related to a problem? Please describe.**

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Describe the solution you'd like

The red path illustrates the flow for the on-premise server.

Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

- Connect with Enterprise Connector (https://github.com/snek-at/ec)

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- API for:
  - Company Page
  - SNEK in the Pipeline
- GQL Client for:
  - SNEK Connector
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Requirements

- ☑ One-Premise Server Concept. #2
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Milestones

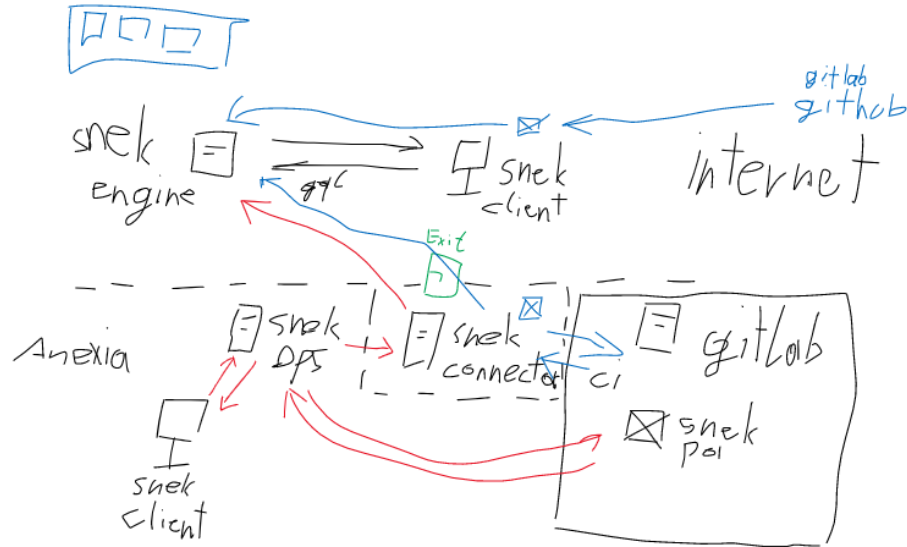| Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Thu, 23 Jul 2020 16:25:44 +0200
Requirements Fulfilled	Mon, 27 Jul 2020 14:12:42 +0200
Feature Reviewed	Mon, 27 Jul 2020 14:14:34 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
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User Stories

- As a company I want to be able to get an in depth source code analyzes, to be able to monitor the work of my employees.
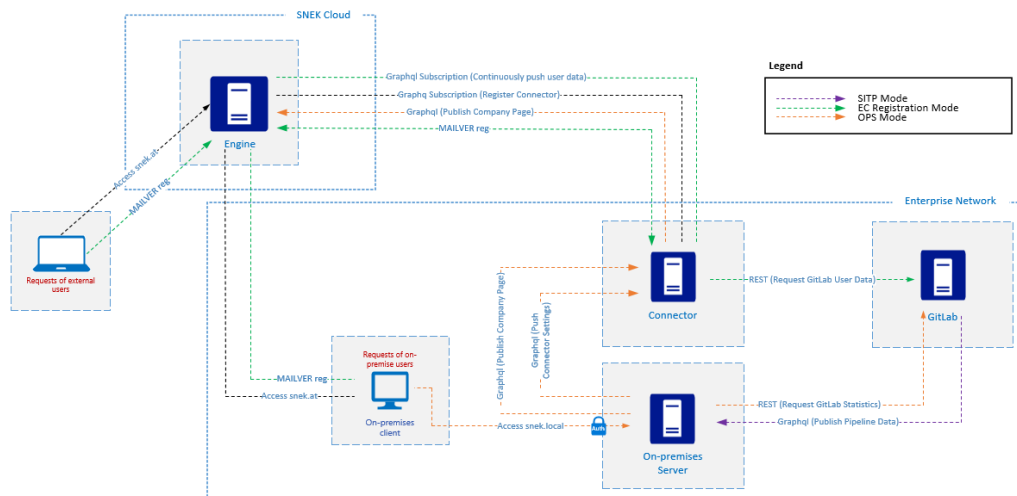
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Snek in the Pipeline should be a plugin for CI/CD pipelines to enable in depth source code analyzes.

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Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

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Requirements

☑ Snek in the Pipeline Concept. #2

☑ Template Repository for Go. #3

☑ Local GitLab Server for Pipeline. #4

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User Story

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Describe the solution you'd like

A web services should be created that displays collected information.

Solutions that could be implemented:

Landing Page

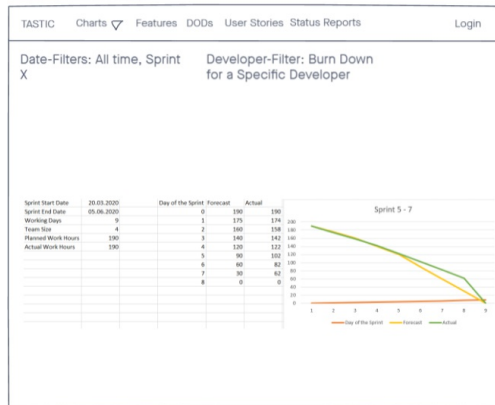The landing page should feature the latest informations.

Charts Pages

The chart tab should feature the throughput and burn down charts.

Features Page

The feature page should provide download link to PDF created by #1.

Features Page

TASTIC   Charts ▽   Features   DODs   User Stories   Status Reports   Login

Search	Filter

Created on 30.07.2020	Download
Created on 29.07.2020	Download
Created on 28.07.2020	Download
Created on 27.07.2020	Download

Definition of Done Page

The definition of done page should provide download link to PDF created by #1.

Definition of Done Page

TASTIC   Charts ▽   Features   DODs   User Stories   Status Reports   Login

Search	Filter

Sprint 1	Download
Sprint 2	Download
Sprint 3	Download

User Stories Page

The user stories page should provide download link to PDF created by #1.

User Stories Page

Status Report Page

The status report page should provide download links to PDFs uploaded by logged in users.

Status Reports Page

Requirements

- ☑ TASTIC Throughput Chart Prototype. snek-at/tastic#4
- ☑ Django Template for TASTIC engine. #3

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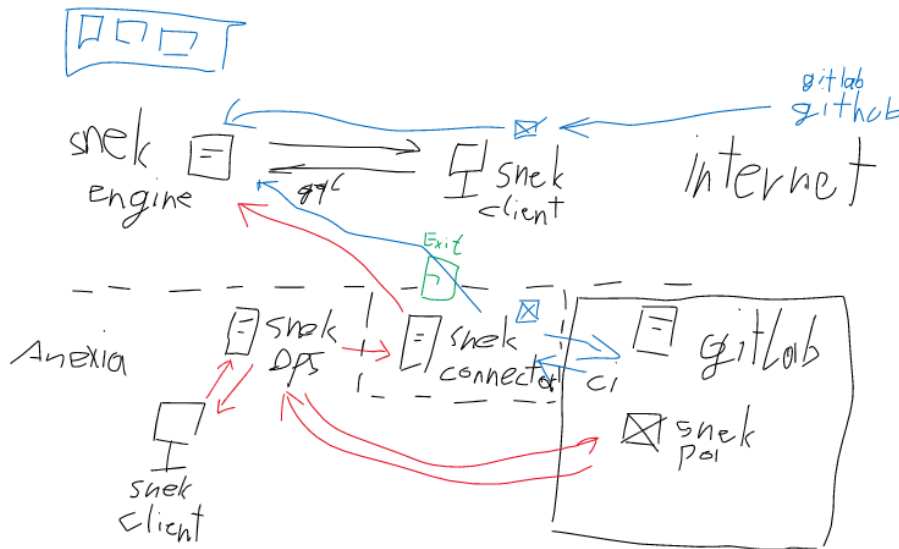# 6 GitHub Issues to PDF

User Stories

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Is your feature request related to a problem? Please describe.
The enterprise connector should be used to enable registration of users from non public instances.
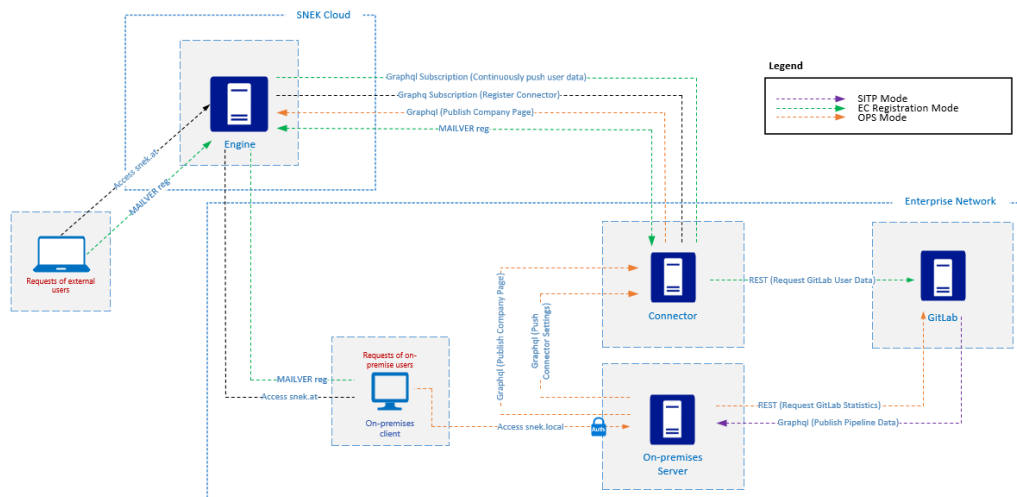
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The code should be kept as small as possible to make it easy for others to read through it.

Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

- Verification E-Mail (https://github.com/snek-at/engine):
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- Update Database (https://github.com/snek-at/engine):

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- ☑ Enterprise Connector Concept. #2
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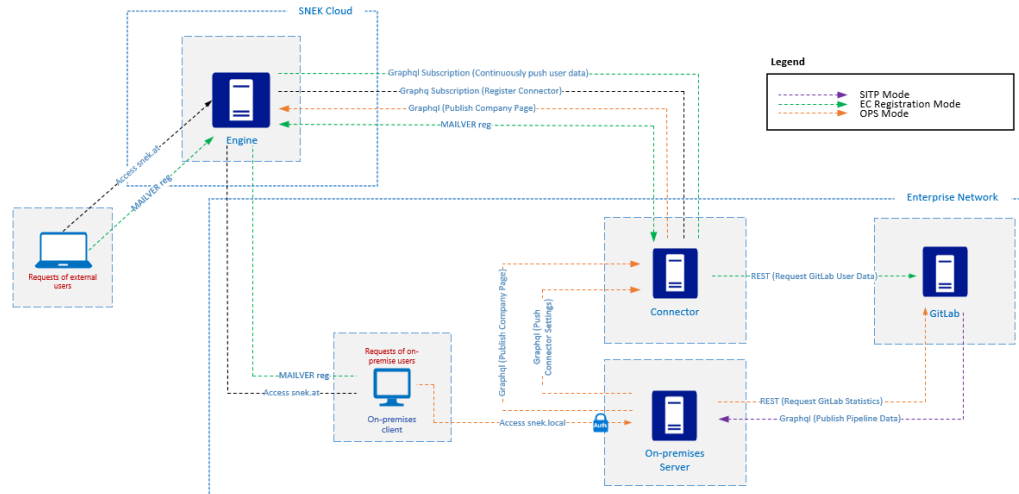
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☑ Workflow Meeting. #12

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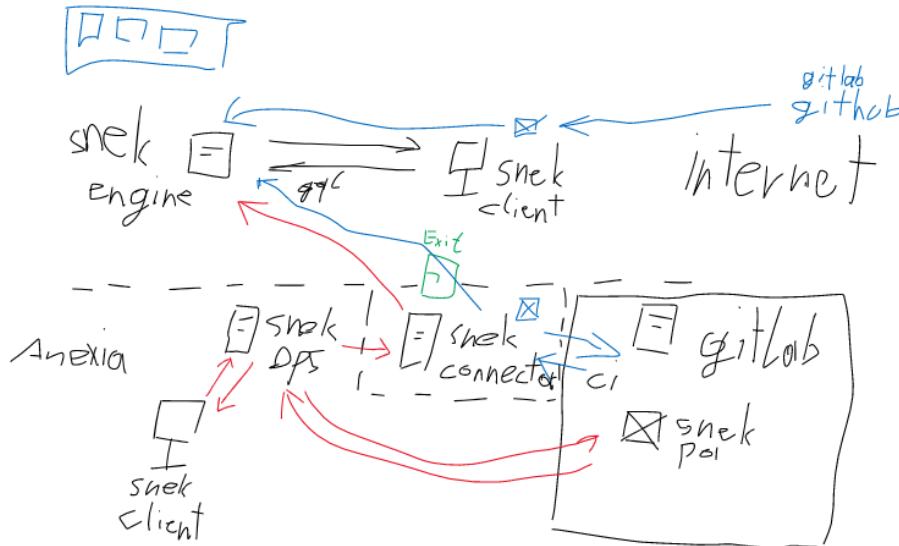|	
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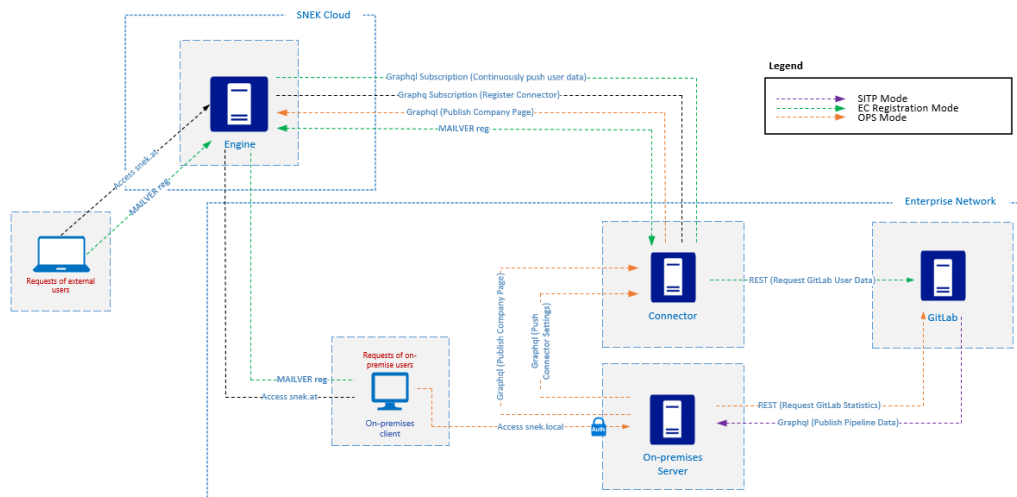**Is your feature request related to a problem? Please describe.**
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- Configure GitLab:
  - Add User (SNEKman)

Requirements

☑ One-Premise Server Concept. #2

☑ Template Repository for Wagtail. #3

☑ Local GitLab Server for On-Premise Server. #4

☑ Update the coding Guideline for Python. snek-at/tonic#6

Milestones

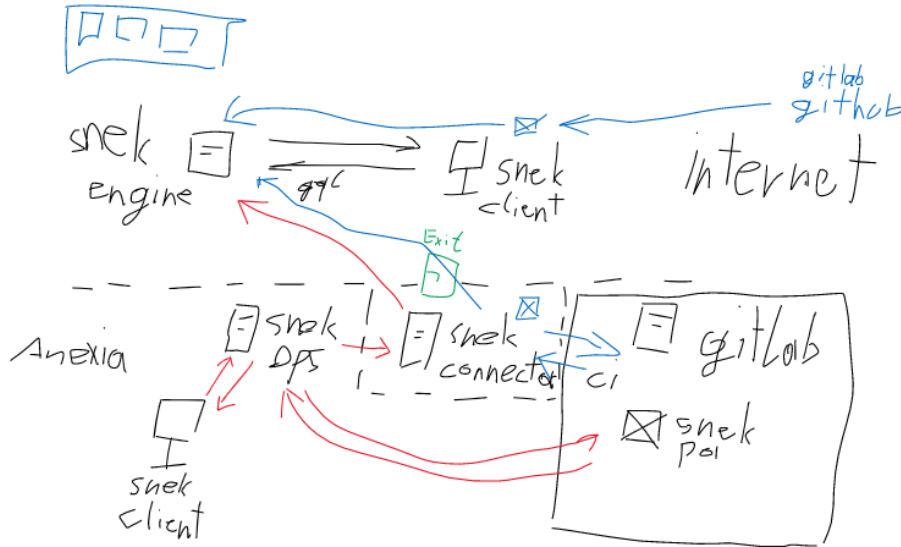| Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Thu, 23 Jul 2020 16:25:44 +0200
Requirements Fulfilled	Mon, 27 Jul 2020 14:12:42 +0200
Feature Reviewed	Mon, 27 Jul 2020 14:14:34 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
Implementation Reviewed	
Implementation Deployed	

User Stories

- As a company I want to be able to get an in depth source code analyzes, to be able to monitor the work of my employees.
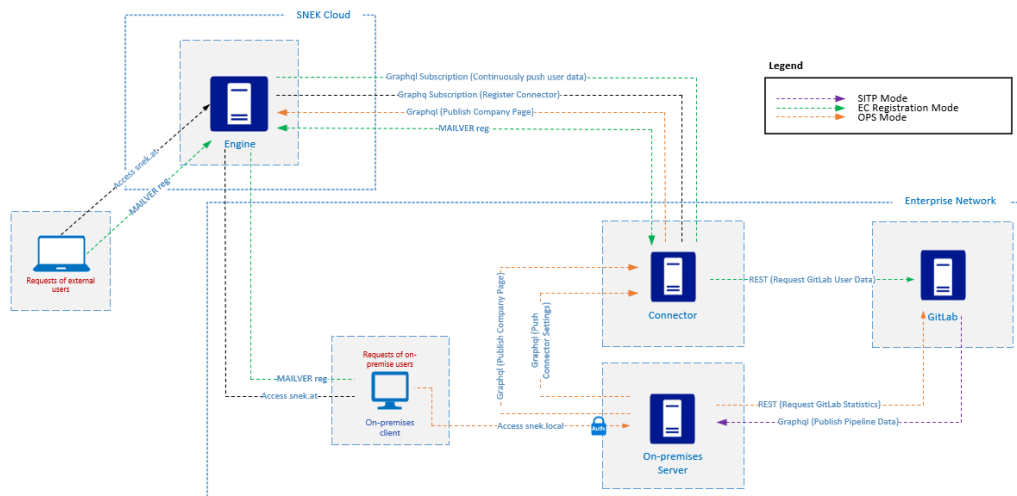
Is your feature request related to a problem? Please describe.
Snek in the Pipeline should be a plugin for CI/CD pipelines to enable in depth source code analyzes.

Describe the solution you'd like

Engine - EC - OPS - SITP Workflow Overview

Solutions that can be implemented:

- Pipeline analyzer
- GQL Client for:
    - OPS (https://github.com/snek-at/ops)

Requirements

- ☑ Snek in the Pipeline Concept. #2
- ☑ Template Repository for Go. #3
- ☑ Local GitLab Server for Pipeline. #4
- ☑ Pipeline Knowledge. #5
- ☑ Update the coding Guideline for Go. snek-at/tonic#7

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Thu, 23 Jul 2020 16:38:31 +0200
Requirements Fulfilled	Mon, 27 Jul 2020 14:02:18 +0200
Feature Reviewed	Mon, 27 Jul 2020 14:06:18 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
Implementation Reviewed	
Implementation Deployed	

User Story

As a project manager I want to have all important project information at one place, in order to make project monitoring as efficient as possible.

Is your feature request related to a problem? Please describe.

Currently it is not possible to monitor the project easily.

Describe the solution you'd like

A web services should be created that displays collected information.

Solutions that could be implemented:

Landing Page

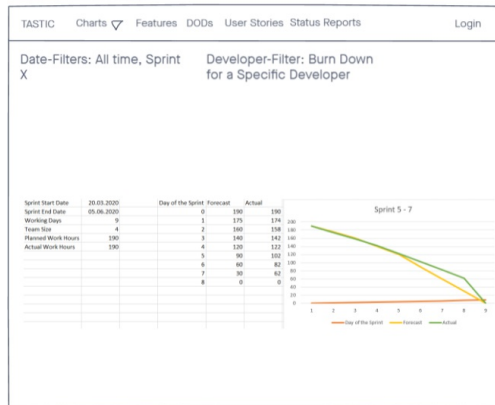The landing page should feature the latest informations.

Charts Pages

The chart tab should feature the throughput and burn down charts.

Features Page

The feature page should provide download link to PDF created by #1.

Features Page

Definition of Done Page

The definition of done page should provide download link to PDF created by #1.

Definition of Done Page

User Stories Page

The user stories page should provide download link to PDF created by #1.

User Stories Page

Status Report Page

The status report page should provide download links to PDFs uploaded by logged in users.

Requirements

- ☑ TASTIC Throughput Chart Prototype. snek-at/tastic#4
- ☑ Django Template for TASTIC engine. #3

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Wed, 29 Jul 2020 18:22:28 +0200
Requirements Fulfilled	Wed, 29 Jul 2020 18:25:50 +0200
Feature Reviewed	Thu, 30 Jul 2020 14:55:20 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
Implementation Reviewed	
Implementation Deployed	

User Story

As project manager I want to have the possibility to convert issue from GitHub to PDF files, in order to provide the PDF file to the clients.

Is your feature request related to a problem? Please describe.

Currently it is not possible to convert issues from GitHub to PDFs.

Describe the solution you'd like

A script should be created that is able to fetch issues and convert them to PDFs. The created PDFs should be stored on a web service to store the file history.

Solutions that could be implemented:

- GitHub API Client
- Latex Template
- Pandoc Templates

Requirements

☑ Prototype Issues to PDF. snek-at/tastic#2

Milestones

Feature Milestones	Completed at in RFC 2822 format
Feature Designed	Wed, 29 Jul 2020 18:16:10 +0200
Requirements Fulfilled	Wed, 29 Jul 2020 18:25:27 +0200
Feature Reviewed	Wed, 29 Jul 2020 18:49:22 +0200
Opportunity Milestones	**Completed at in RFC 2822 format**
Implementation Done	
Implementation Reviewed	
Implementation Deployed	