

GECko

Software project, work update 4

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Table of Contents

Progress

Where We Are At

Action Plan

Table of Contents

Progress

Where We Are At

Action Plan

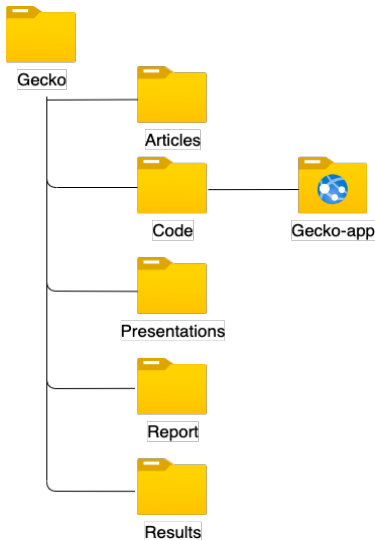
Docker

- Docker file (~10 instructions)
- Building docker image (~4 GB)
- Built on top of Python 3.7 image

Azure ML

- Container Registry
- Free Azure Credits
- Dedicated App Service Plan

Git Structure



- Isolated environment for the app
- Separated history for the app
- Avoid path-related issues

App Structure

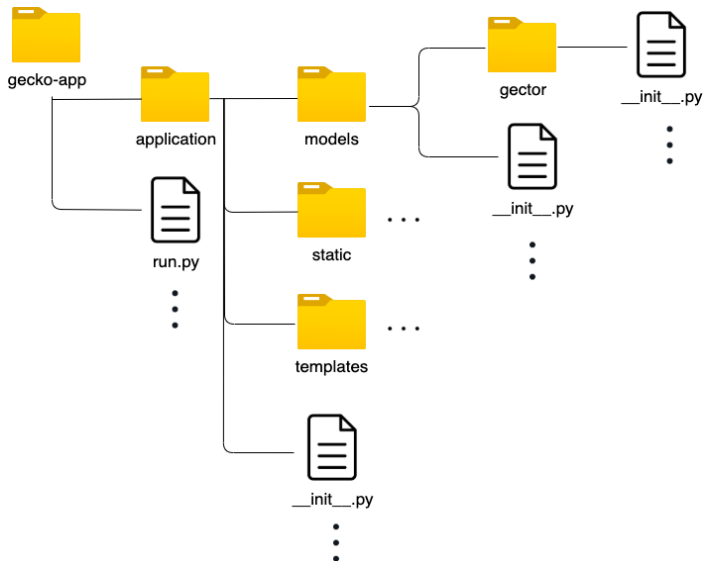


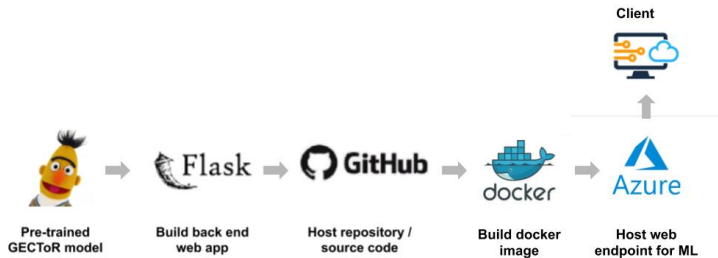
Table of Contents

Progress

Where We Are At

Action Plan

Project Workflow



Web App is Up and Running!

[https://gecko-ai.
azurewebsites.net](https://gecko-ai.azurewebsites.net)

Table of Contents

Progress

Where We Are At

Action Plan

Problems Investigation

Separation of Development and Production environments:

- Dev offline, Prod online
- SaaS performance
- Security issues

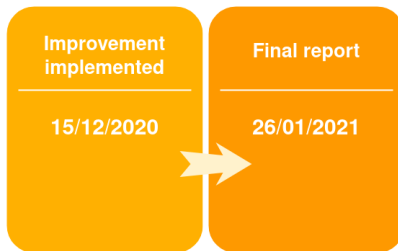
Improvements

- Mobile-responsive website
- Token-wise delta function

Possible Development Directions

1. Features addition on the current version:
 - Glossary with personalized entries
 - Database
2. Discourse error corrector:
 - English Wikipedia corpus (shuffled at sentence level)
 - Co-reference resolution
 - Adding new sentence-level tags
 - Adapting model
3. Exploration of other GEC systems:
 - GingerIT
 - ERRANT

Milestones



Thanks for listening!
Questions?