

# Repodex Project Creation Synopsis

Repodex is a developer collaboration tool with a fun nerdy twist. Created by [Carlos](#), [Connor](#), [Peggy](#), and [Saaram](#)

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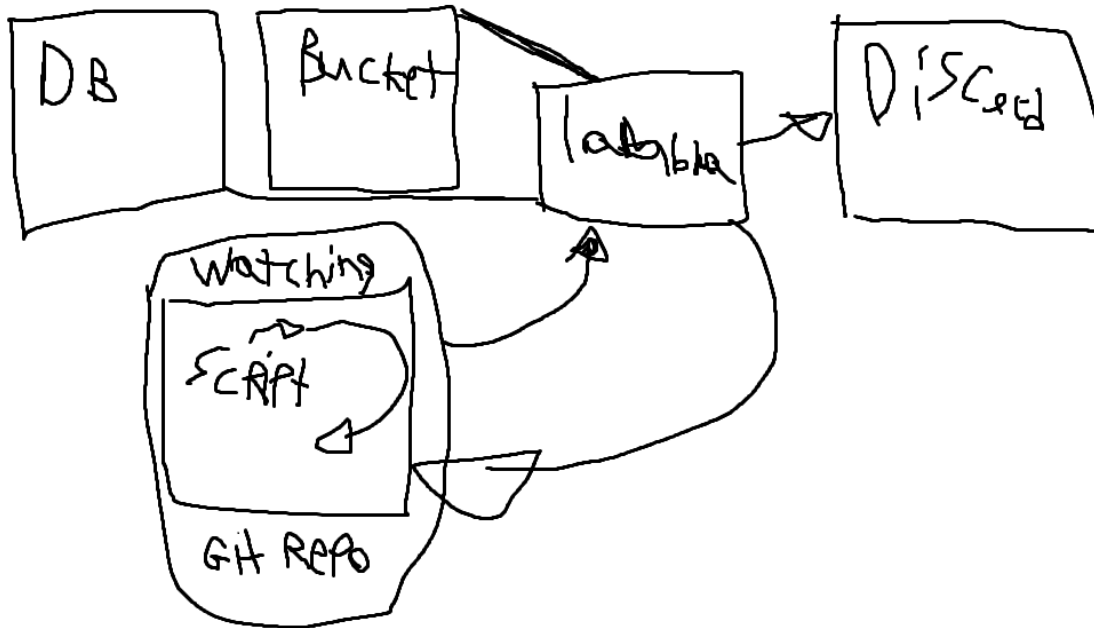


Figure A. Repodex initial "napkin concept" flowchart

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# Scope

## Note

*Why this project? What is the purpose?*

## Abstract

We decided to make Repodex to assist with online developer collaboration, as well as to help motivate developers by showing work that is being done in a fun manner. One core focus of the project was also the technologies involved. Our group members wanted to try out something new, while also making something cool which we can actually use in our day to day lives. Since we also wanted to collaborate via Git and Github, we figured "Why not make something that can help us with Github collaboration and also make it fun and nerdy!"; Hence, Repodex was born!

## Tech

For technologies, our group wanted to learn AWS Lambdas, rustlang (or rust), Terraform, Webhooks, and advanced bash option menus. We also wanted to collaborate using Github, so everyone involved learned how to use the git command line and Github to create commits and pull requests. See figure B (below) for an outline of our server design for the Repodex service.

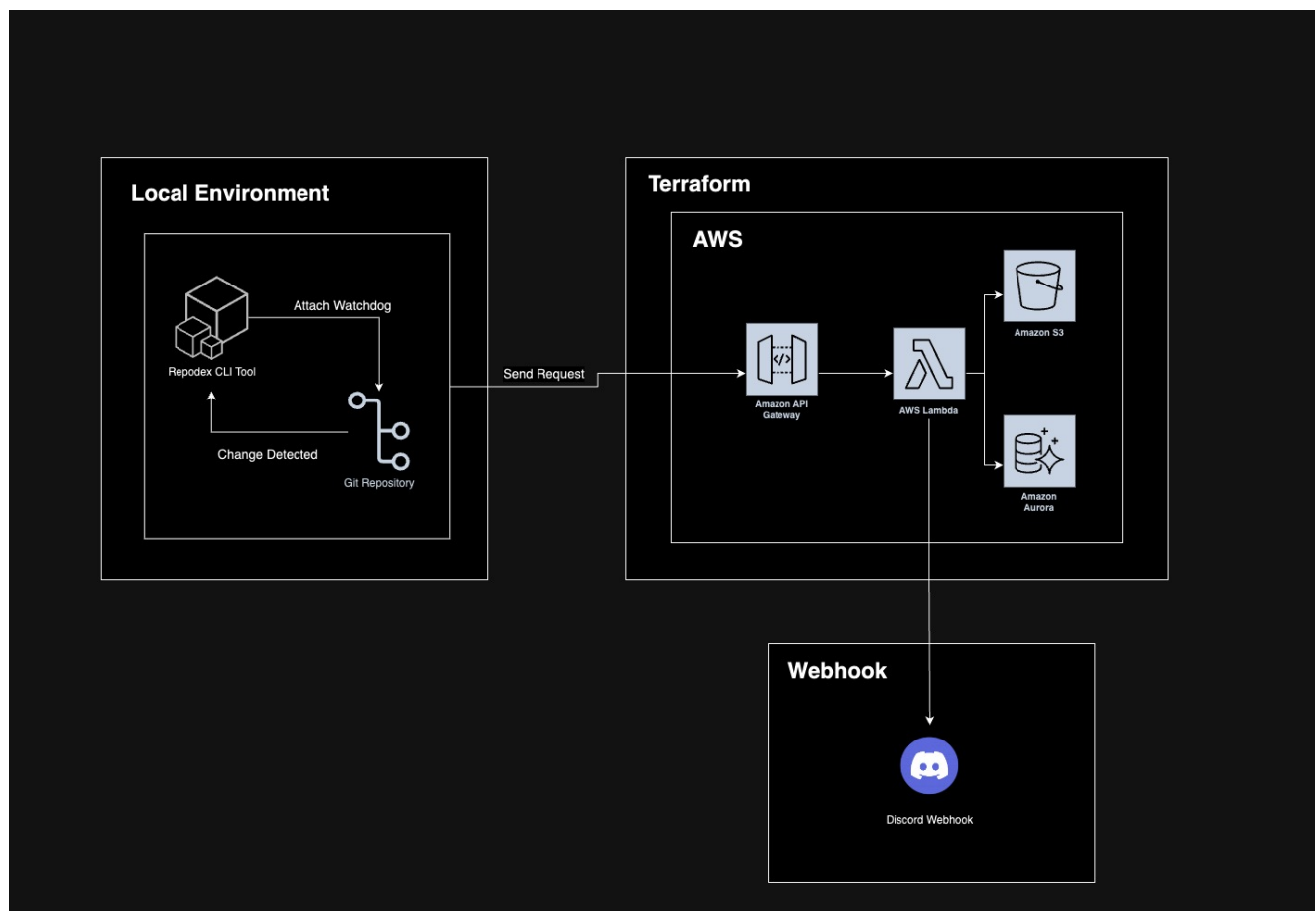


Figure B. Final Repodex Webservice System Context Diagram

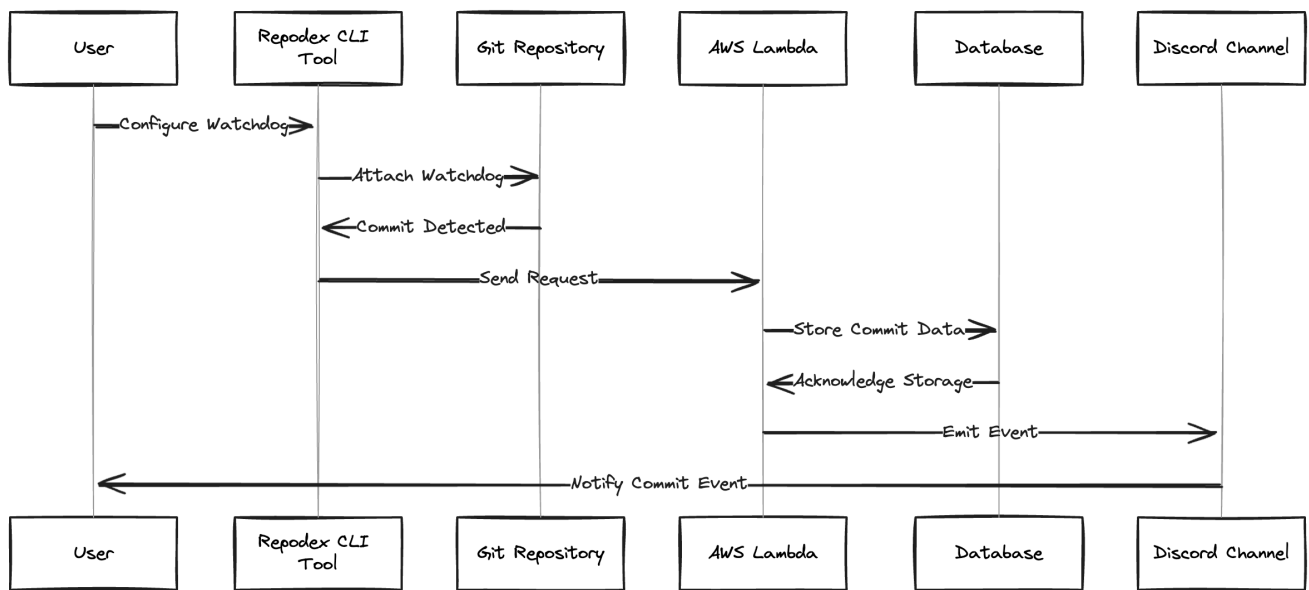


Figure C. Final Repodex sequence diagram of program operations

## Algorithm

### **Note**

*Steps followed for completing the project*

When brainstorming ideas to create this project, this is the process that we followed to end up with our Repodex product:

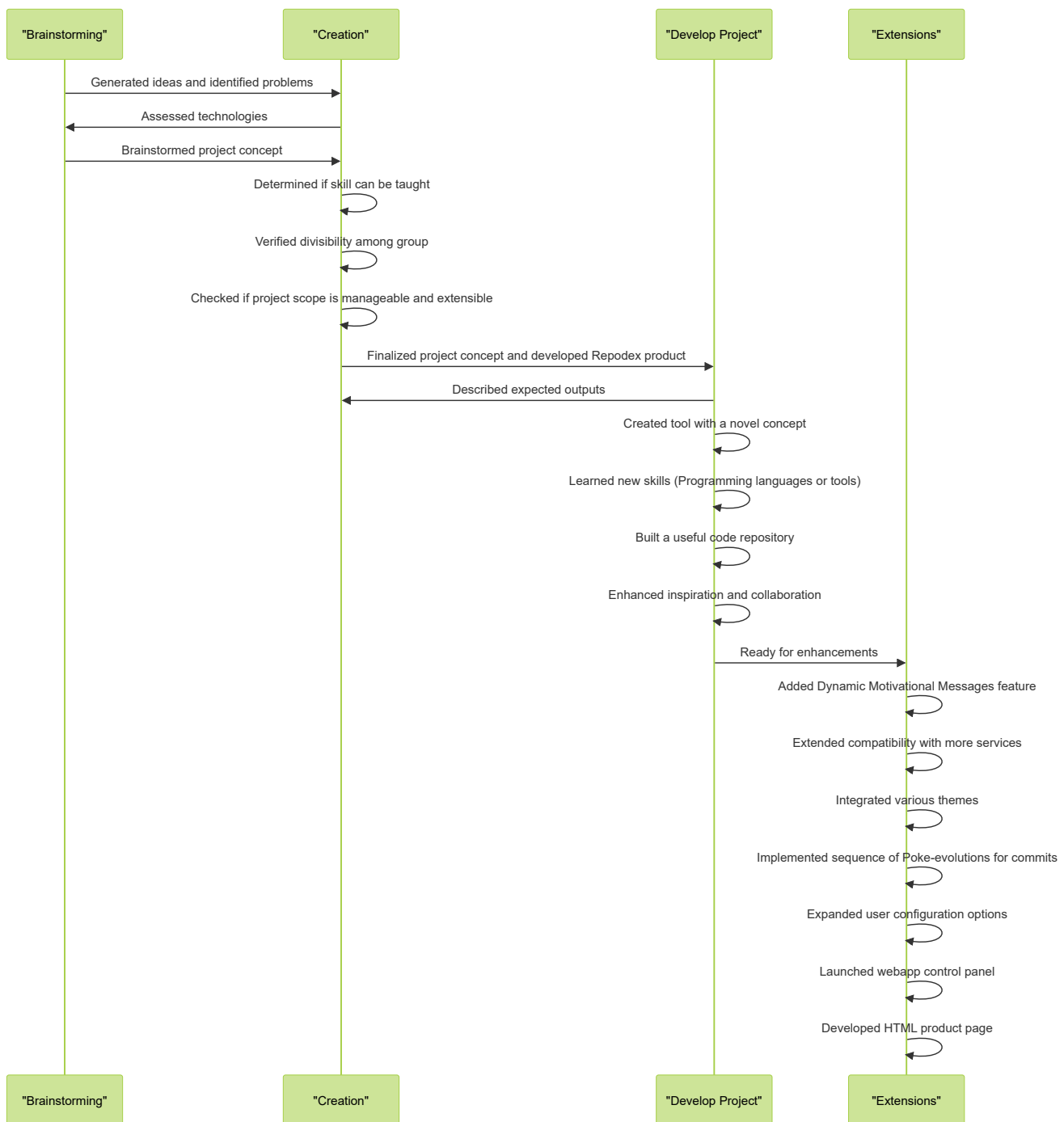
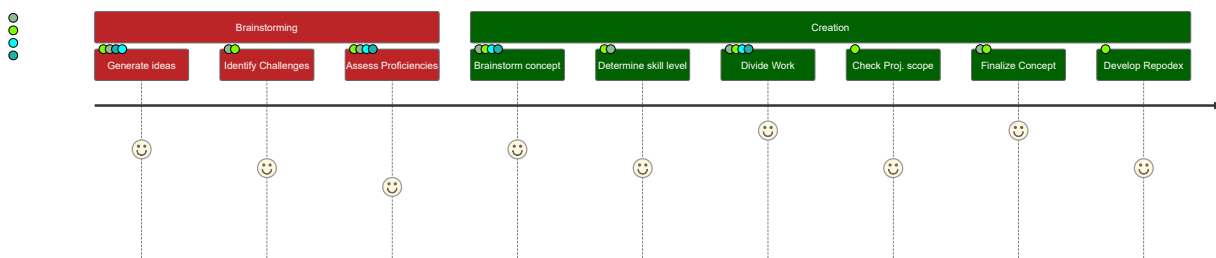


Figure D. Project Inception Process



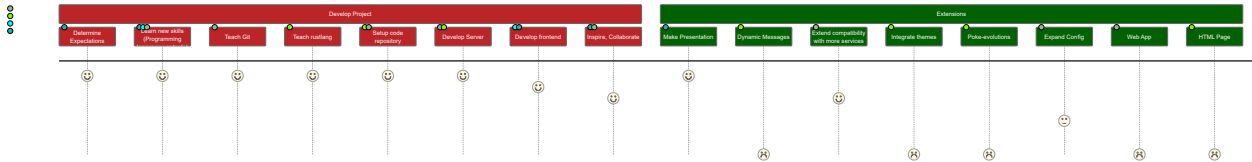


Figure E. Project Development Process

## Inputs

- Ideas for technologies to learn and use
- Problem area's we wish to solve
- What technologies each of us are proficient with already

## Processing

- What can we make together that solves one of the problems and satisfies the following:
  - Has a technology we all want to learn, and at least one of us can teach the others
  - Can be divided into parts among the group members
  - Has a project scope which is both manageable, and extensible

## Expected Output

- A tool with a novel concept that is useful to us
- New learned skills (Programming languages or tools: rustlang, git, aws, etc)
- A useful code repository for the tool that we can proudly show on our resume / portfolio.
- Something that inspires us to code, and assists with our collaboration



El Mensajador 機器人 昨天 18:52

## 🌟 Project Update Detected! 🌟



Repo: pokemon-git-tracker

Branch: test

Message: chore: test

Date: Apr 11, 2024

### Committer

Carlos De la Cruz - [View Commit](#)

### 🔍 Changes:

Added: 1

Removed: 0

Modified: 0



Keep up the great work, team! Let's make our project the very best, like no one ever was! 🌈

# Project Enhancements

- Motivational "message of the day" at bottom of Repodex notification could be set to dynamically pick a different message for each commit
- Compatibility with additional messaging services can be added (Slack, MSTEams, Telegram, Whatsapp)
- Other character types or themes for the alert messages (other game images, anime characters, Dungeons and dragons, etc)
- Add option to send Poke-evolutions in sequence for commits from the same user
- Additional configuration options for users
- A deployed webapp control panel for setting up repositories
- html product page

# Bash Scripts

See attached scripts submission alongside this document.

All scripts are also on the repository on [Github](#).

- install
  - install-git.sh
  - install-github-cli.sh
- setup
  - setup-discord-webhook.sh
  - setup-git.sh
  - setup-post-commit.sh
  - setup-symlink.sh
- build.sh
- colors.sh
- install.sh
- invoke.sh
- main.sh
- menu.sh
- setup.sh
- watch.sh
- watchdog.sh

# Outputs Received

See output examples provided alongside this document. ([screenshots folder](#)).

```
Welcome to the setup submenu!
1) Git & Github
2) Symbiotic Link
3) Discord Webhook
4) Post-Commit
5) Go back
5) Exit

Select software to setup: 3

==> Running Discord Webhook setup script...
Enter your Discord Webhook ID: 123123
Enter your Discord Webhook Token:
You're about to save this information. Continue? (y/n)
y
Webhook details saved to .discord_webhook_config.
```