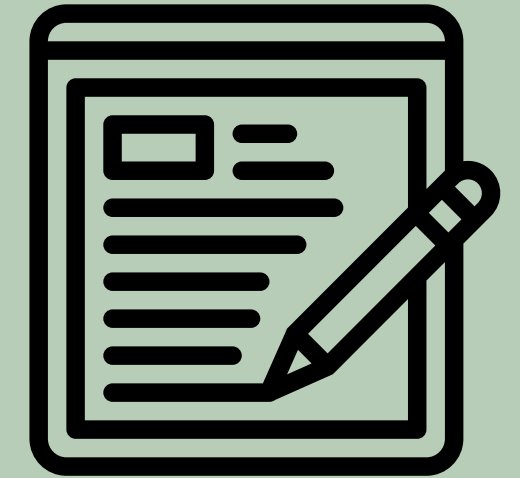


EcoMaster

소프트웨어공학개론 8조

임성훈, 문수현, 김민성, 양승환, 황인성

Contents



01 Overview

02 Goals & Methods

03 Team

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Background

What is EcoMaster?

Implementation

To make lots of developers know about green pattern algorithm and make them implement it to code. It will create a platform that helps with eco-friendly coding practices. With interactive tools, developers can learn about green patterns' significance for less software energy consumption and carbon emissions. Continuous feedback and eco-friendly contributions will incentivize developers embrace green coding practices.





Part 2. Goals & Methods

Goal



Write Smarter, Code Greener: Every Line Counts for the Planet.



Detailed Goals

Analyze Code

Shows carbon emissions.

Modify Code

Present improved code and show the effects of improvement.

Community Engagement

Help with a collaborative community

Green Quiz

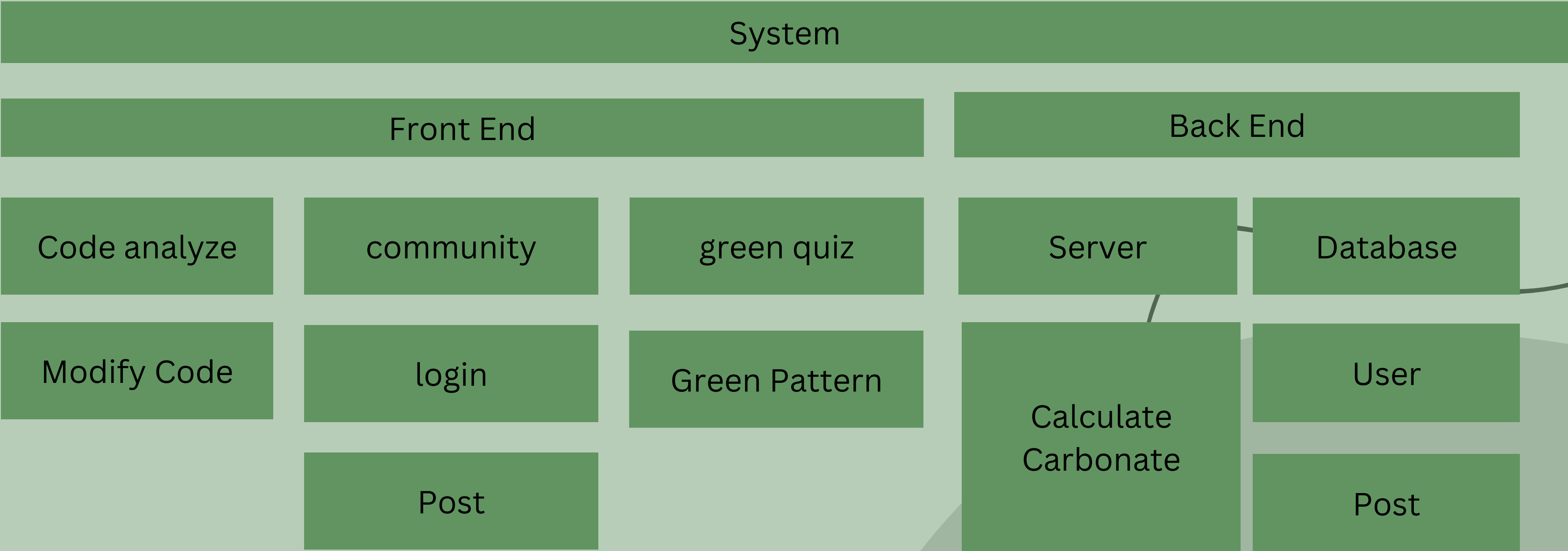
Presents additional green patterns



Part 3

System & Team

System



Team

Front End

김민성

양승환

문수현

Back End

황인성

임성훈

Part 4



Part 4

Plan & Effect

Plan- Schedule

WEEK	~4/14	~4/21	~4/28	~5/5	~5/12	~5/26	~6/14	~6/24
Requirement Specification								
Design Specification								
Requirement partitioning								
Implementation								
Integration								
Testing								
System Deployment & Code Review								

Overall Plan

Plan & Effect

Requirement
Specification.
(~5/5)

Unit Model
Specification.
(~4/12)

Unit Model
Development &
Implementation.
(~5/5)

Integration
(6/14)

Verification/
Validation.
(~6/24)

Test Plan



Unit Test



Integration Test



System Test



Acceptance Test

Application Plan



Find out new Green pattern
Add new pattern to make code more efficient



Expand the types of languages
Can utilize program for other languages such as Python, C++, etc



Educate developers and software companies

Guide for importance of decreasing carbon emissions and how to utilize the tool

Benefits



Environmental Impact Reduction

reducing carbon footprint in software applications

Cost Savings

avoiding unnecessary costs

Improved code quality

cleaner and more efficient code

Long-Term Sustainability

eco-friendly coding practices establish a culture of sustainability that extends beyond individual projects.



Thank you!