EcoMaster

소프트웨어공학개론 8조

임성훈, 문수현, 김민성, 양승환, 황인성

Contents

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 constributions 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

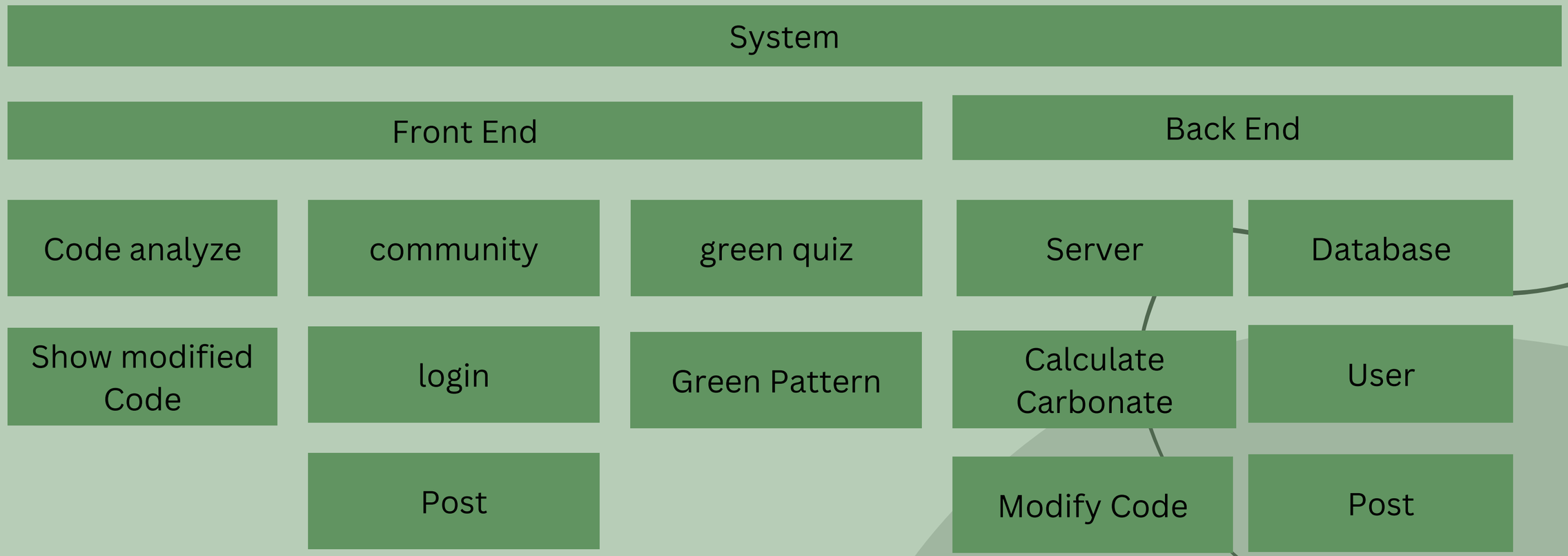
Green Quiz

Presents additional green patterns

Part 3

System & Team

System


System
Front End
Back End
Code analyze
community
green quiz
Server
Database
Show modified Code
login
Green Pattern
Calculate Carbonate
User
Post
Modify Code
Post

Team

Front End

김민성

양승환

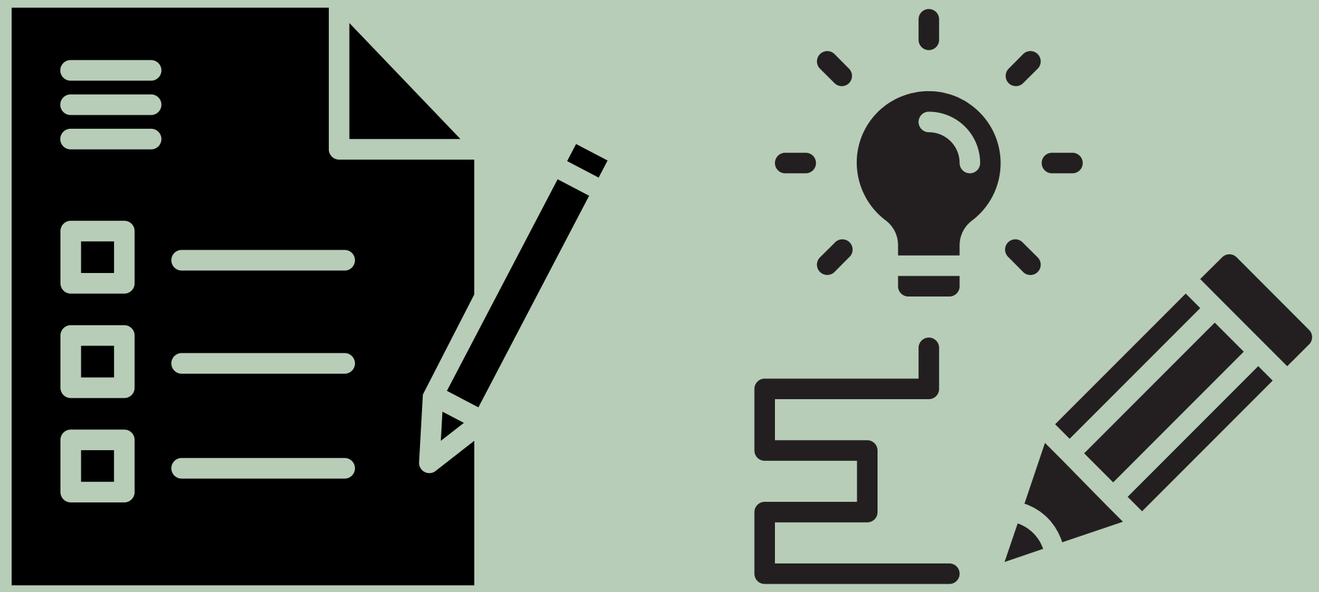
문수현

Back End

황인성

임성훈

Part 4



Part 4

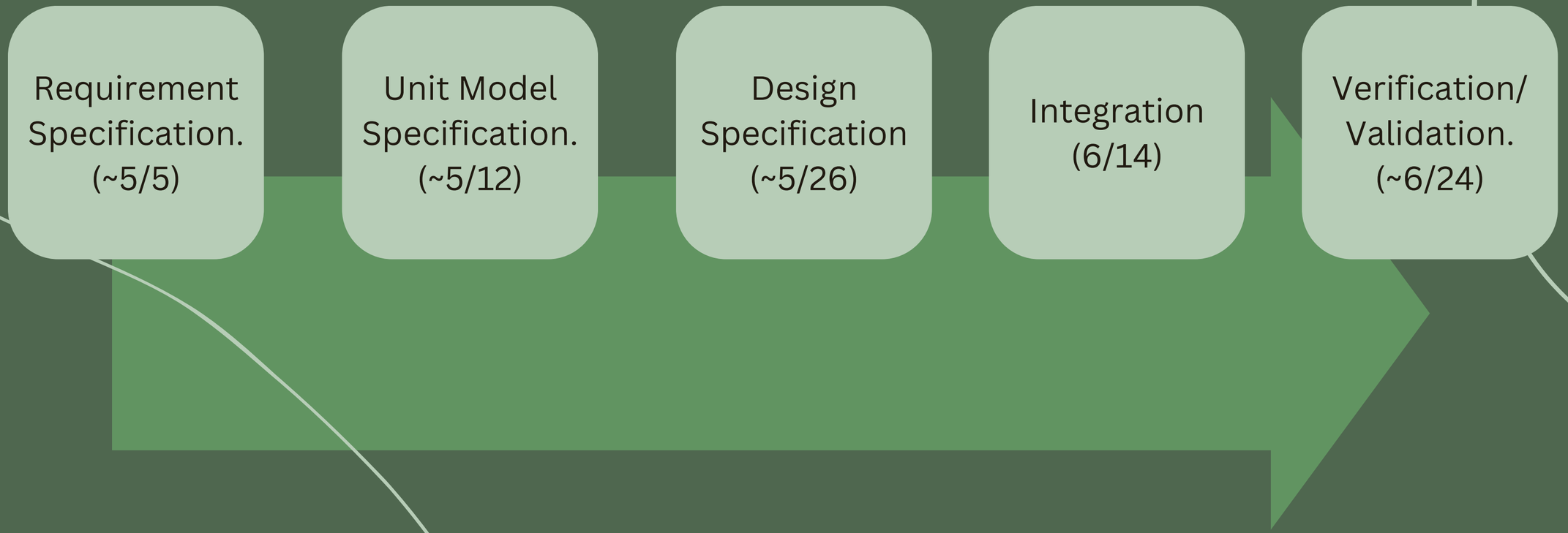
Plan & Effect

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



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

clearner and more efficient code

Long-Term Sustainability

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

Thank you!