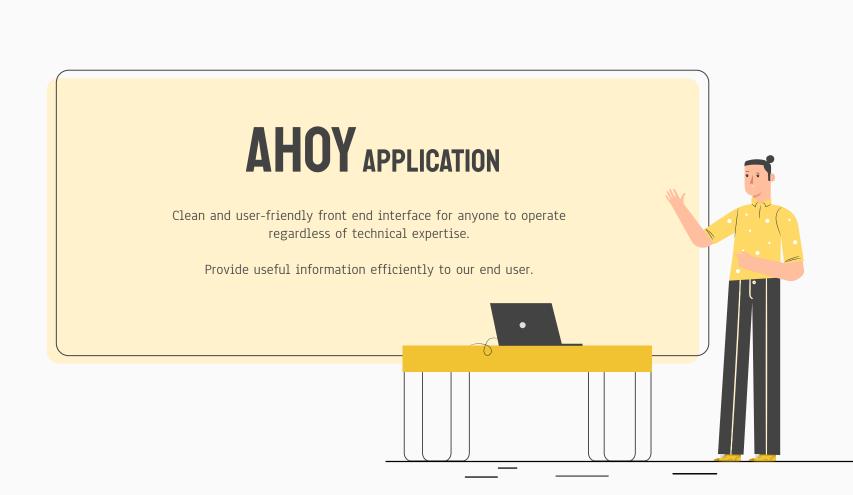
AHOY!

G2T2

Arvin Aik Eaint Khit Faith Tay Jonathan Chua Wu Lixiang





TEAM LINEUP



ARVINTech Lead and Back End development



EAINTDesign and HTML elements



FAITHDesign and Front End integration



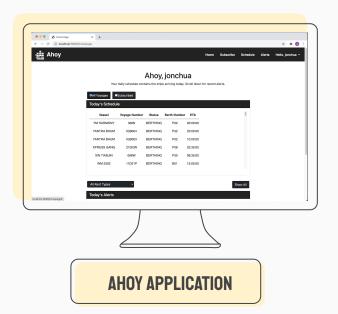
JONATHAN
Email Functionality and Front End
integration



LIXIANGConnecting to APIs and Front End integration

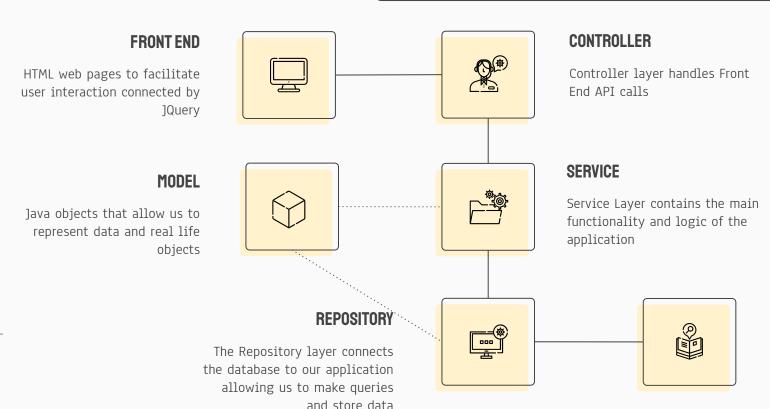
INTERACTION WITH OUR APPLICATION





Intuitive Front End gives control and functionality to user. Back End hidden away.

SOLUTION ARCHITECTURE



DATABASE

MySQL to store all the data from user preferences to vessel and voyage data

SOLUTION ARCHITECTURE

com.ahoy.ahoy

alert

Alert AlertPK

AlertRepository AlertService

email

Email EmailService Berth

berth

BerthRepository

BerthService

portnet

PortnetConnector ScheduledFunctions user

AlertPreference AlertPreferencePK AlertPreferenceRepository User

UserRepository UserService

VesselPreference VesselPreferencePK

VesselPreferenceRepository

voyage

Voyage VoyageDetails

VoyageDetailsPK VoyageDetailsRepository

VoyagePK

VoyageRepository VoyageSecurity

controllers

websecurity

WebSecurityConfig

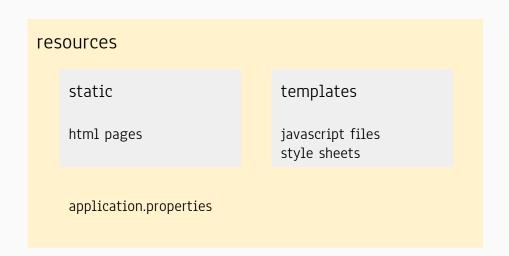
AjaxController ViewController

AhoyApplication

main method

SOLUTION ARCHITECTURE

java com.ahoy.ahoy Back End



DEPENDENCIES

- Spring Framework
- □ Spring Boot
- ☐ Javax Persistence
- ☐ Spring Data JPA
- ☐ GSON
-]avaMailSender
- ☐ Spring Web
- ☐ Spring Security
- Lombok
- ☐ Apache Tomcat
- ThymeLeaf
- ☐ Spring Configuration Processor
- MySql Connector Java
- JQuery
- Bootstrap



MAIN FEATURES

OI INTEGRATED WEB APPLICATION

We used Spring Boot to develop a lightweight and standalone web application. This allowed us to integrate a responsive Front End interface for the user powered by Jquery.

O3 ALERT CONFIGURATION

Having account preferences tied to account, allows the user to set alerts for subscribed vessels. We used JavaMailSender to send scheduled email alerts to the user.

O2 ACCOUNT MANAGEMENT

Dependencies like Spring Security allowed us to provide a seamless and secure account registration and login process.

04 INFORMATION RETRIEVAL

We used Spring Web and Data JPA to retrieve and store data from Portnet API allowing us to deliver useful and relevant information to the user through an responsive interface.

LEARNING POINTS!

SELF-LEARNING

This point can't be understated. We had to learn a lot of new things beyond the scope of what's taught in the classroom. We learnt that it is an invaluable skill to be independent in our own learning.

WORKING AS A TEAM

Another invaluable skill we learnt was to code and collaborate effectively through GitHub.

(Especially after many frustrating moments of accidentally wiping out code)

APPLYING JAVA

This project also gave us a chance to apply what we learnt in class in a more realistic setting. We got to see our code actually work as part of a bigger application.

DEMONSTRATION



