GROUP

WAREE: Image-based Water Level Estimation And Its Notification System





A water level estimation system that utilizes images from CCTV cameras, developed in collaboration with Nakhon Si Thammarat Municipality and depa. It includes a water level estimation algorithm, user-friendly web application for real-time water level monitoring, and notification system designed to notify users in the event of a zone change, enabling preparation for flood situations in a timely manner.



OBJECTIVES



To Optimize

the existing resources utilization



To Develop

a water level estimation algorithm, web application, and flood notification system



To Collect

water level data for future analysis and prediction



To Monitor

water levels in real-time

TOOLS & TECHNOLOGIES

Water level estimation algorithm











Database





Notification system



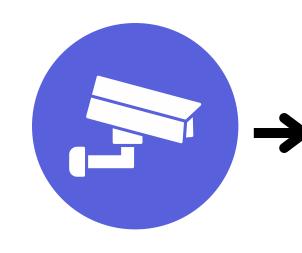






SYSTEM DESIGN

Water level estimation algorithm



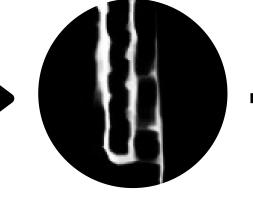
Images from **CCTV** cameras



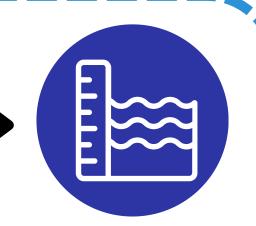
Image pre-processing



Holisticallynested edge detection



Erosion



Water level estimation



Web application



Notification system

WEB FEATURES



Displaying

real-time water levels



Downloading

historical water level data



Supporting

Thai and English languages



Featuring

an interactive dashboard

Project Members

Ms. Wipada Glahan 63070503450 Ms. Jidapa Thongnirun 63070503462 Ms. Punn Kiriwong 63070503465

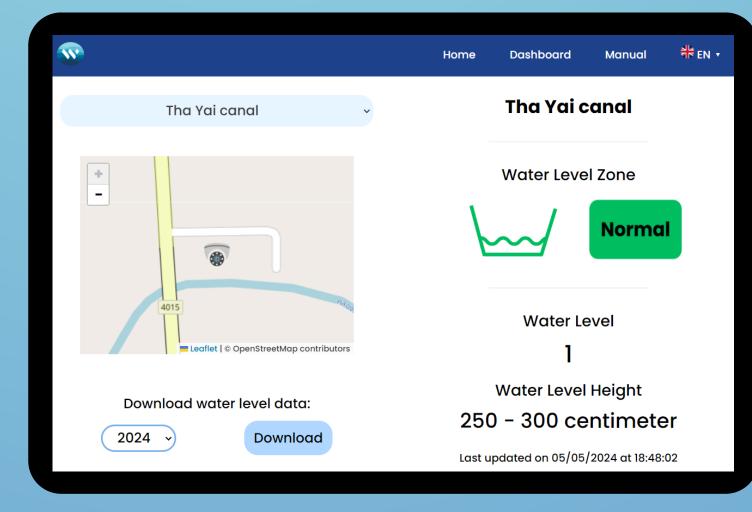
Advisors

Dr. Kharittha Jangsamsri

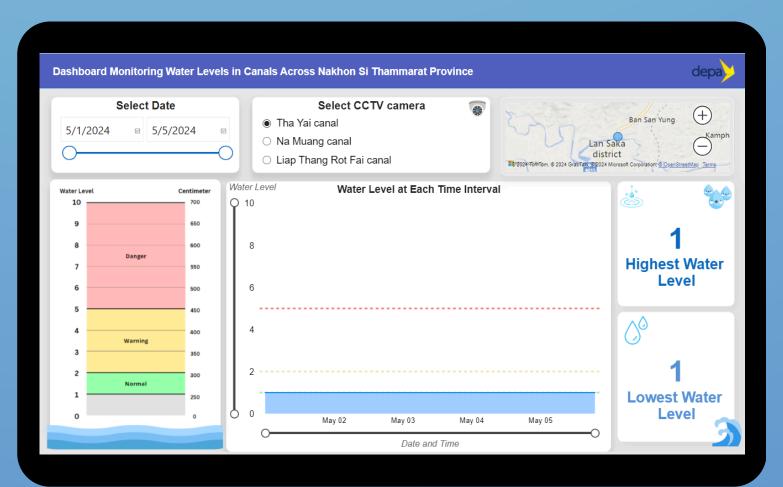
Co-advisor

Asst. Prof. Santitham Prom-on

HOME PAGE



DASHBOARD PAGE



USER INTERFACE

NOTIFICATION SYSTEM

