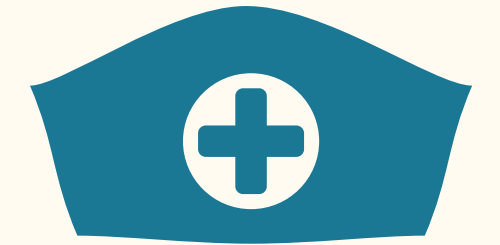


NURSE SCHEDULING SYSTEM




# NSched

ALMARIEGO - ANCHUVAS - MENDOZA - SOTIAR - VILLAMONTE

# Problem Statement

- ▲ **THE INCONVENIENCE OF HAVING A PAPER-BASED SCHEDULING SYSTEM**
- ▲ **OUTDATED DATA STORAGE**
- ▲ **SECURITY RISK**
- ▲ **ACCURACY**



NSched manages your nurses' schedules accurately and easily. This is an efficient and intuitive schedule creation and management system. NSched can also function as a vehicle to empower nurses, providing a level of work or life balance, and helping to improve overall employee satisfaction. NSched is the solution to the old and time consuming process of nurse scheduling.

## **PROJECT DESCRIPTION**

---



# Project Objectives



To store data with accurate and sufficient storage

To create accurate work shifts and schedules efficiently

To create a secure database to avoid irretrievable data loss

To implement drag and drop feature for convenient and easy creation of schedule

# Significance of the Study

The project could benefit the following people:

## FOR THE NURSE MANAGERS OR SCHEDULERS

- The project can make the process of scheduling more convenient and efficient.
- It can save time by avoiding manual paper-based schedule revisions and handling requests.

## FOR THE NURSES

- The project will help the nurses to view their schedules easily.
- Rest day or leave requests also become easier to send to the Nurse Manager.



Drag and Drop feature for creating and updating of Schedule



Easy way of requesting for leave, day off or change of schedules



Accept or reject requests at real time without dealing with papers

# Project Features



schedulers can create, update, or delete a schedule.

Schedulers can see requests given by the nurseS.

Schedulers can create and delete nurses' accounts.

Nurses can check their schedules.

Nurses can send requests for leave or days off to the schedulers.

# Scope of the Study

# Delimitation of the Study

It will only be available for web and mobile browsers locally.

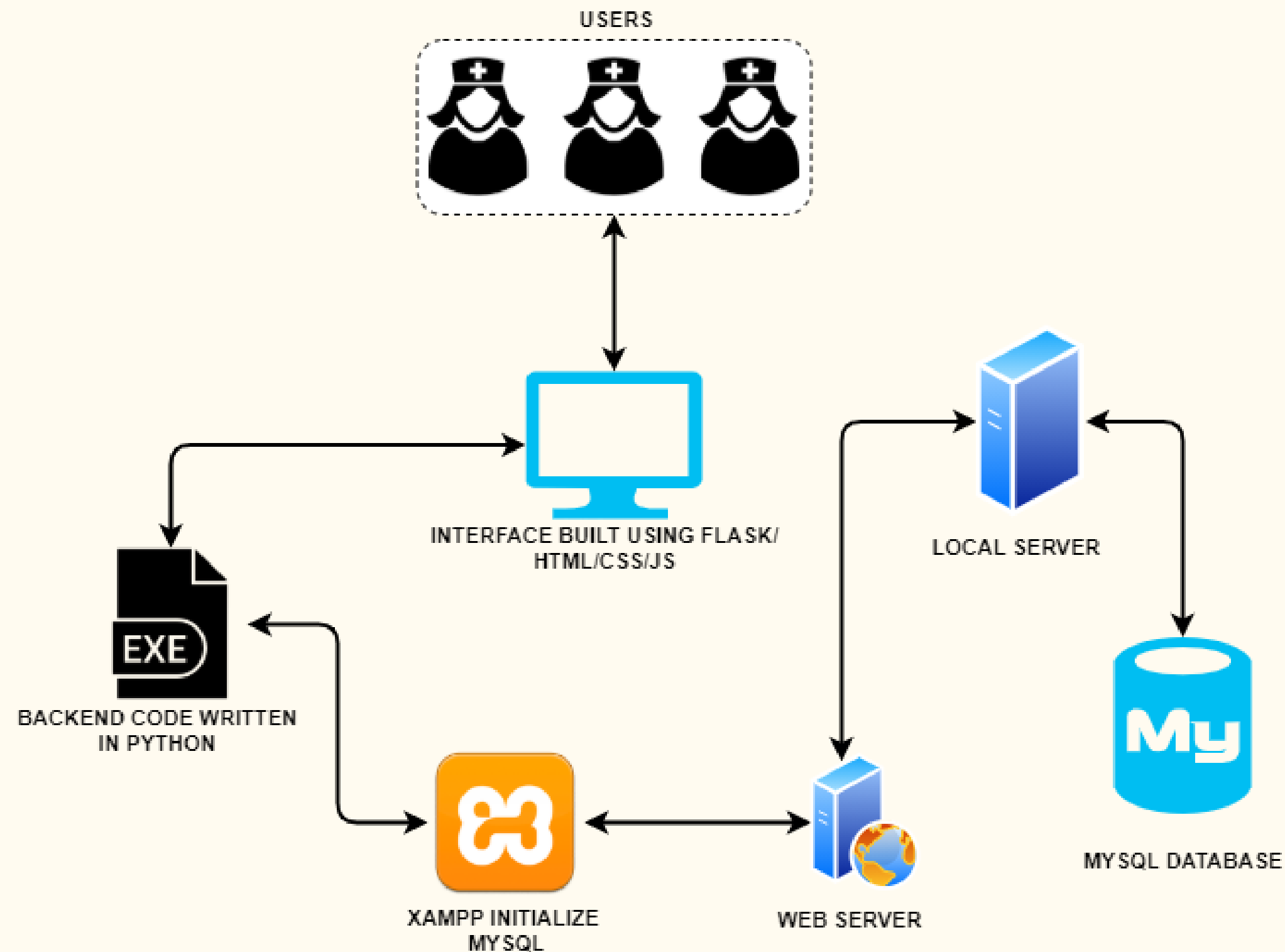
Schedulers cannot create schedules in a mobile browser setup.

It will not be able to monitor the attendance of the nurses.

It will not be able to generate a random or suggested schedule.

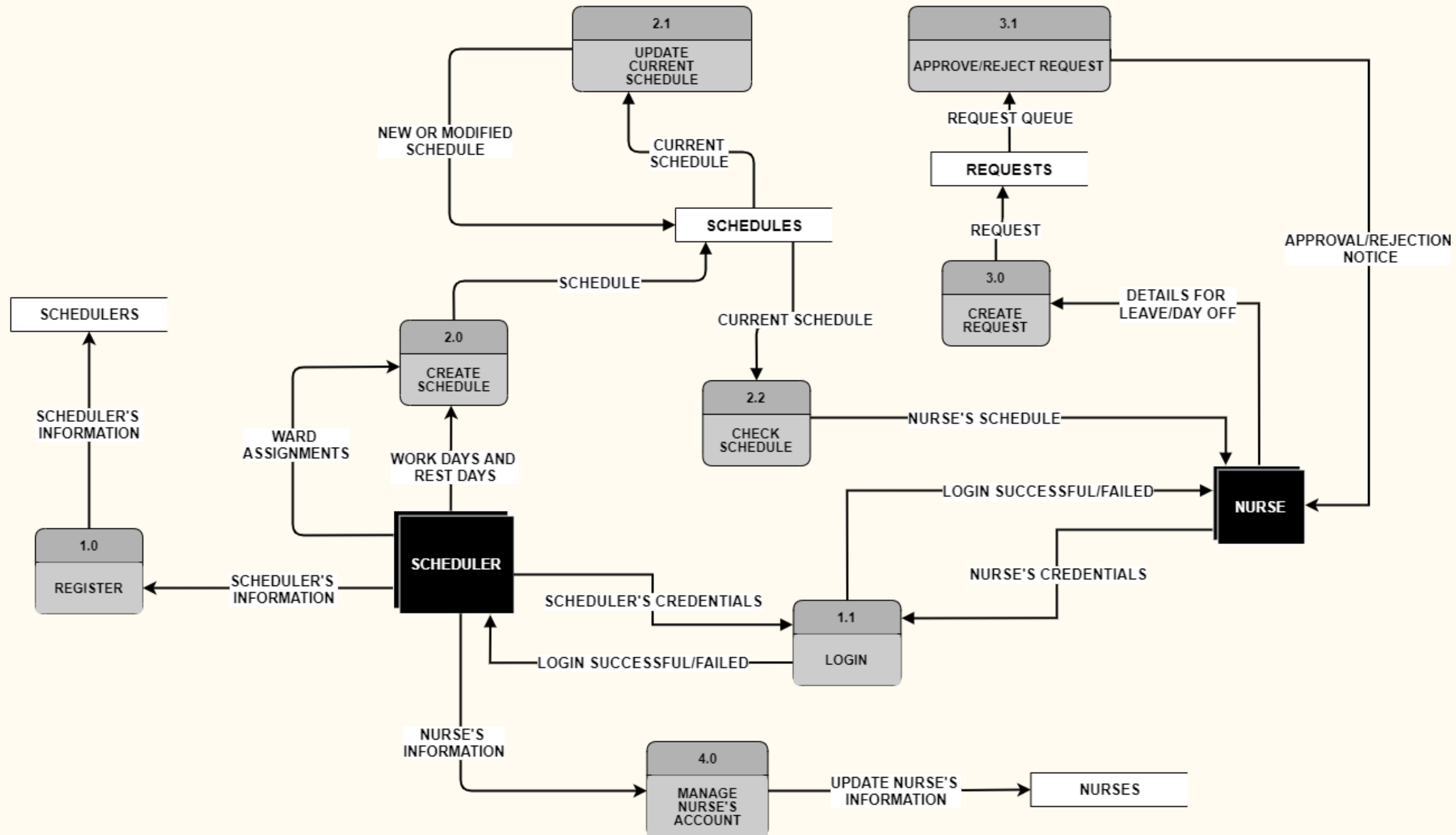


## NURSE SCHEDULING SYSTEM (ARCHITECTURE DIAGRAM)



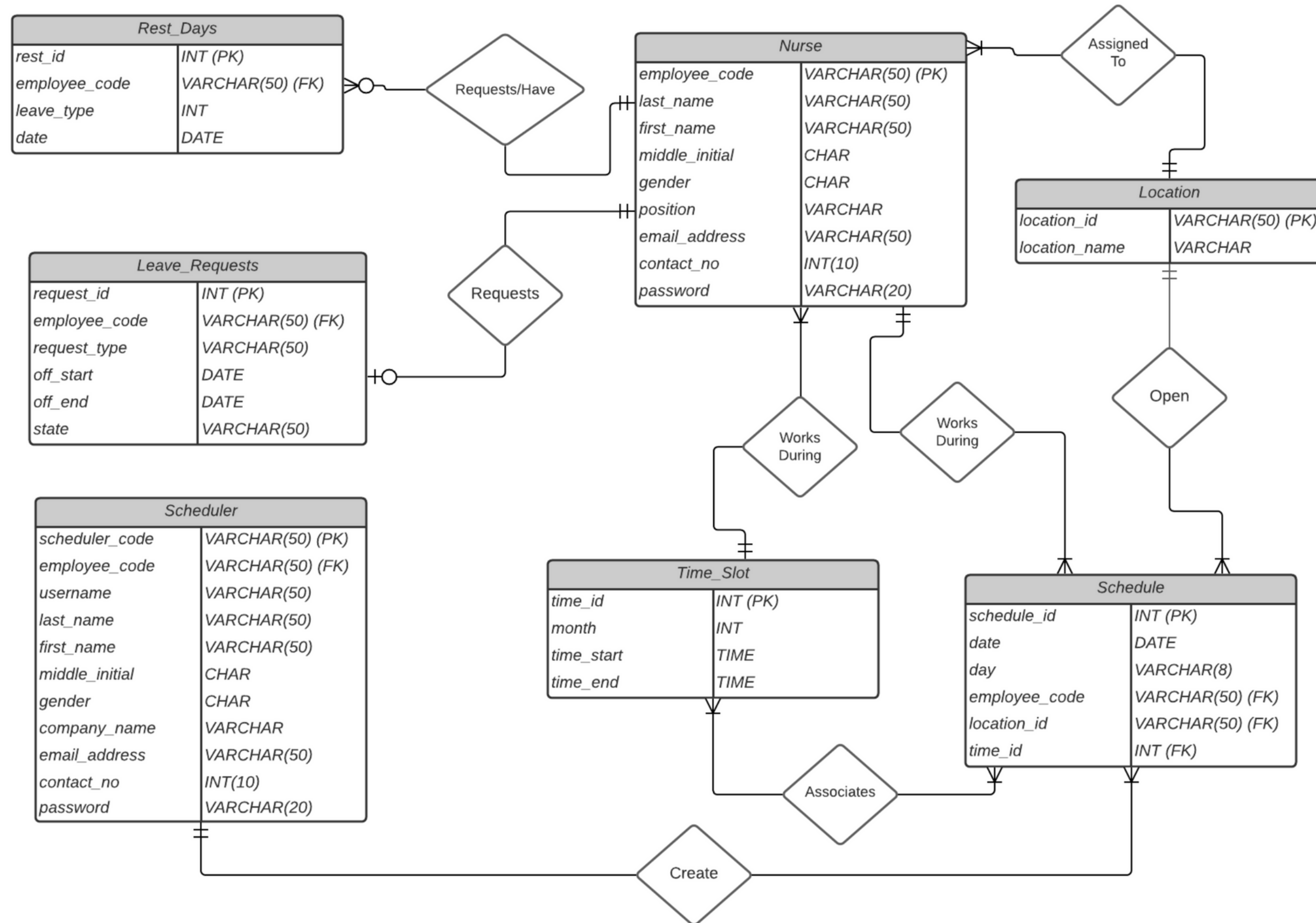
# System Architecture

## NURSE SCHEDULING SYSTEM (DFD LEVEL 2)



Data Flow Diagram

## NURSE SCHEDULING SYSTEM (ERD)



# Software Development Model

REQUIREMENT GATHERING  
AND ANALYSIS

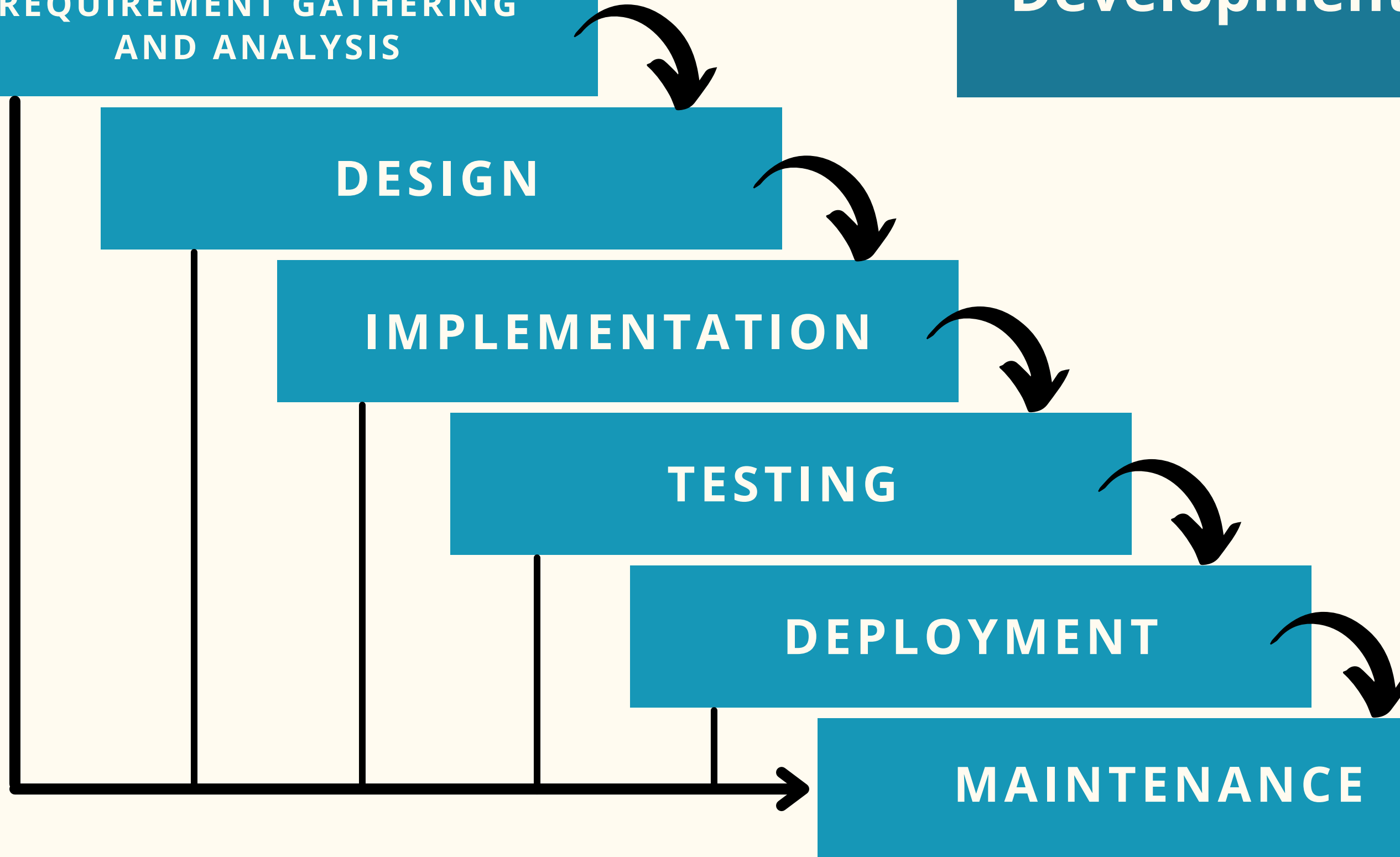
DESIGN

IMPLEMENTATION

TESTING

DEPLOYMENT

MAINTENANCE



## Tools used or to use in the Development

### DIAGRAMS.NET

For the development of the  
diagrams.

### ADOBE XD

For the prototype.

### XAMPP

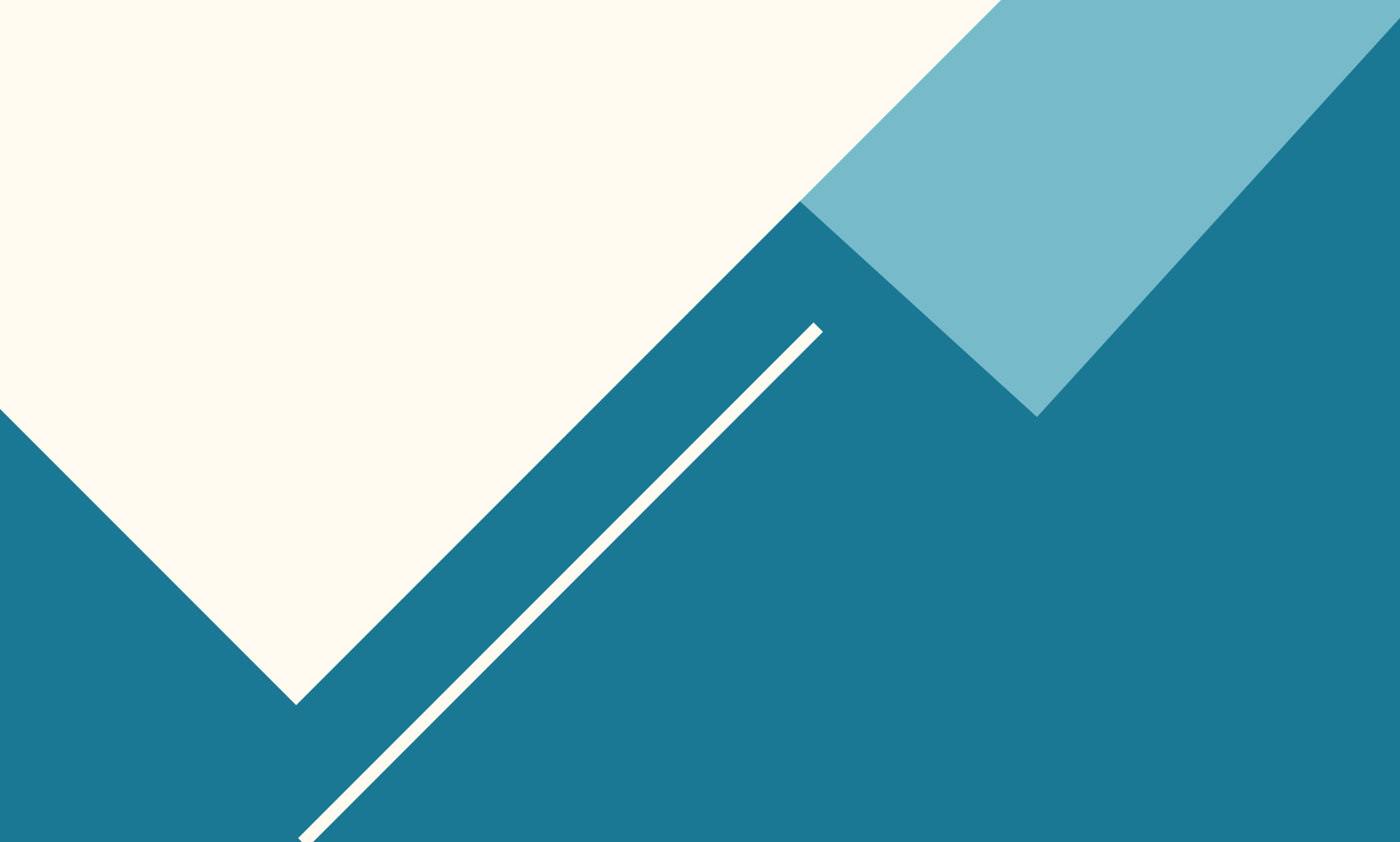
For compiling and executing  
the back-end code. Also for  
managing and storing data  
with MySQL database.

### BOOTSTRAP STUDIO

For the front-end  
development.

### VISUAL STUDIO CODE AND SUBLIME TEXT

For developing the algorithm  
and code.



# Project Timeline

DEC 7 - DEC 29, 2020

Research

DEC 14 - DEC 20, 2020

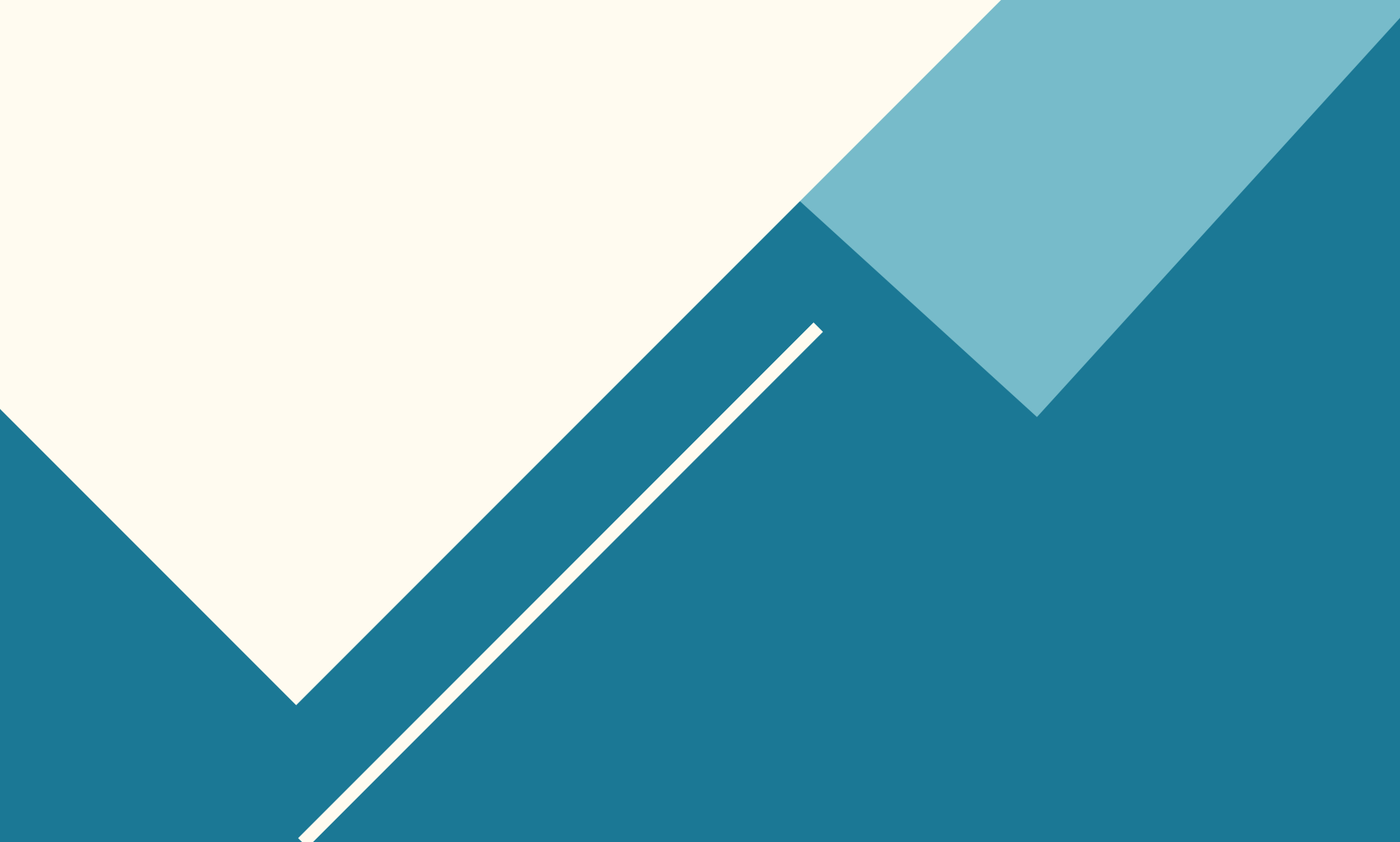
Conceptualization of System and Use  
Case Definition

DEC 21, 22, 28, AND 29, 2020

Use Case Diagram and Conceptualization of  
Database

JAN. 4 - JAN. 10, 2021

Entity-Relationship Diagram and Data  
Flow Diagram



# Project Timeline



JAN. 4 - JAN. 17, 2021

Database Design

JAN. 11 - JAN. 23, 2021

Architecture & Framework, UI Mockup,  
UX Concept, and Wireframing

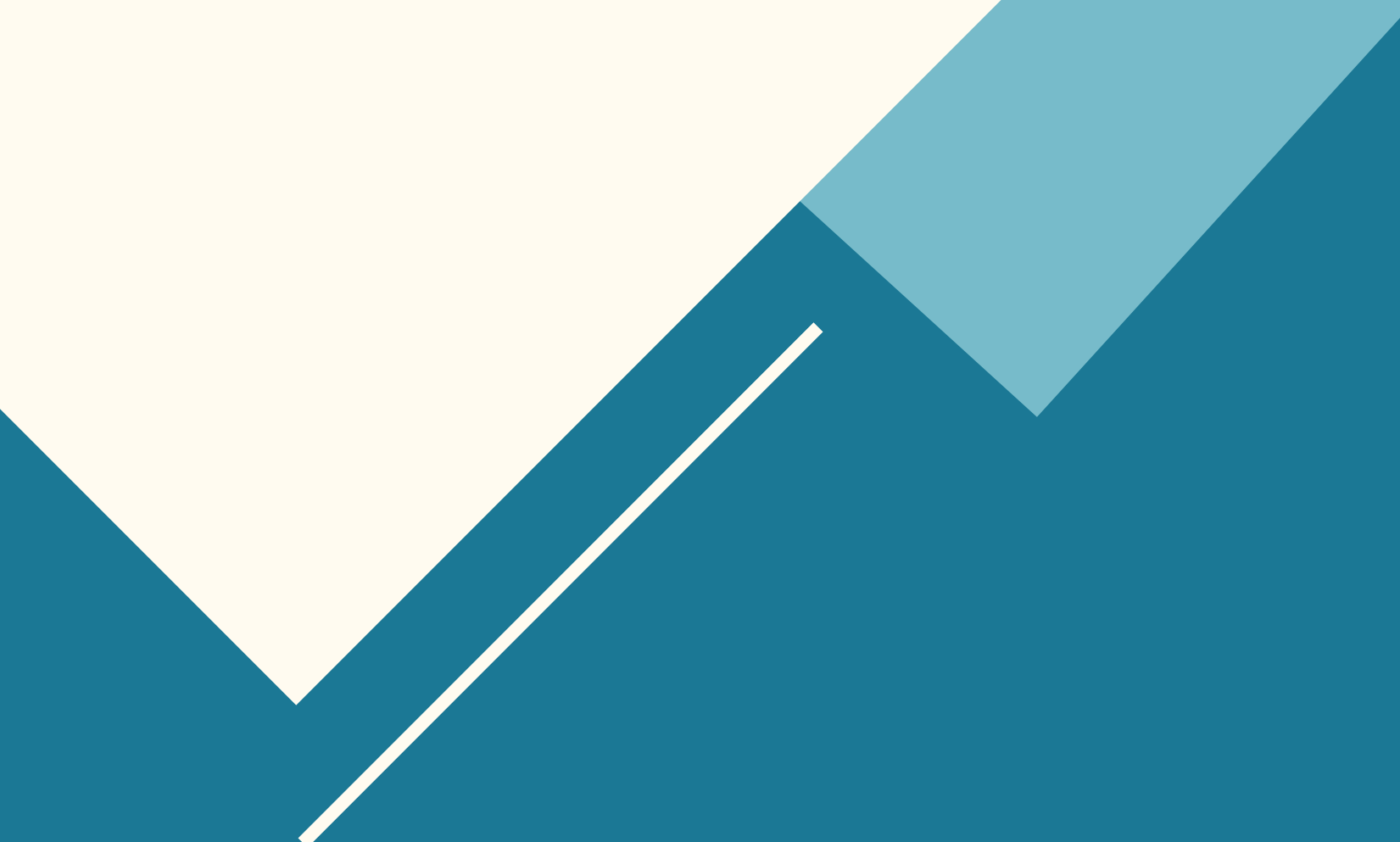
JUNE 20 - 27, 2021

Creation of Database Tables

JUNE 20 - JULY 4, 2021

User Interface Development





# Project Timeline



JUNE 20 - AUG. 1, 2021

UX Optimization

JUNE 20 - AUG. 1, 2021

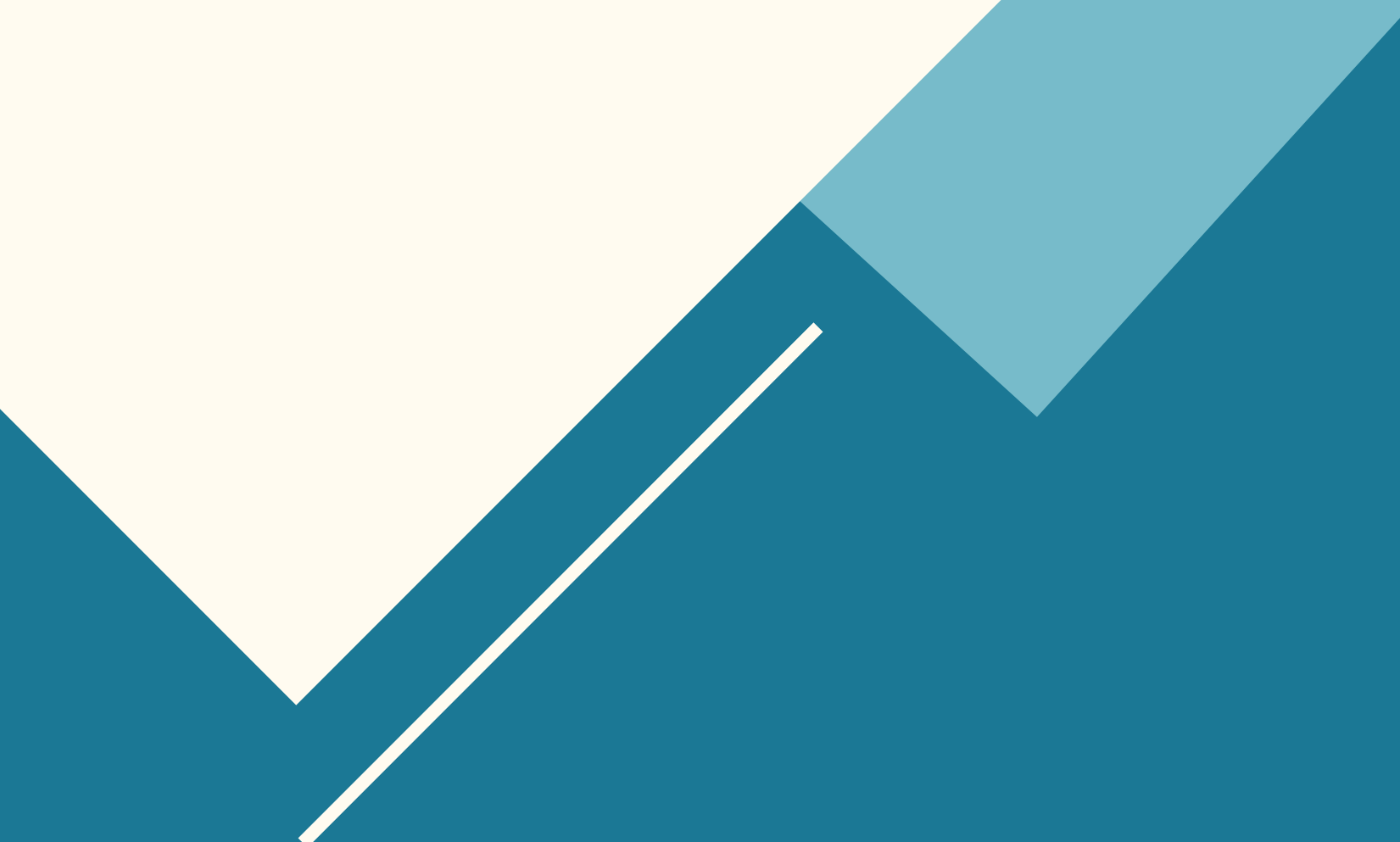
Documentation

JUNE 28 - JULY 18, 2021

User Scouting and Program  
Maintenance

JUNE 28 - AUG. 1, 2021

Debugging



# Project Timeline



JUNE 28 - AUG. 1, 2021

Module Creation

JULY 5 - AUG 1, 2021

Publication of Application

MEMBERS  
CONTRIBUTION

ALMARIOGO,  
GILBERT S.  
  
SYSTEM ANALYST

ANCHUVAS,  
KIMBERLY B.  
  
PROJECT LEADER AND UI/UX  
DEVELOPER

MENDOZA,  
MICKAELA JEORGE L.  
  
TESTER (QA)

SOTIAR, MIKAELA S.  
  
UI/UX DEVELOPER

VILLAMONTE, REECE  
PHILIPPE E.  
  
BACK-END DEVELOPER