

# Da Boot

## Bug submission and tracking software

By: Max Ooi Wei Xiang

### Table of Contents

Context.....	1
Goals and Non-Goals.....	1
Proposed Technical Architecture.....	1
User-Interface.....	2
Database Design.....	6
Milestones and Timeline.....	6

### Context

The aim of this project is to provide an platform for developers and contributors to track bug fixes over time. Developers can subsequently send links to software users to submit bugs directly.

### Goals and Non-Goals

The goals of this project are:

- User Authentication and Authorization, using both username+password and Oauth method
- Unauthenticated users can submit bugs only and register/sign in to be a tester
- Authenticated users can search for users and be a tester without approval
- Different roles for each project, with each role being able to perform the previous roles' tasks:
  - Tester – Submit and view past bug tickets, request for promotion to developer
  - Developer – Close, edit, assign and comment on bug tickets, request for lead switch
  - Lead – Create projects, approve role elevation and lead switch, promote and demote all users within the project
- Each ticket has submission, assignment and plan-closeout and closeout date, color coded based on urgency.
- Demotion-lock, if users are assigned tickets

The non-goals of the project, which could be of interest in the future, are

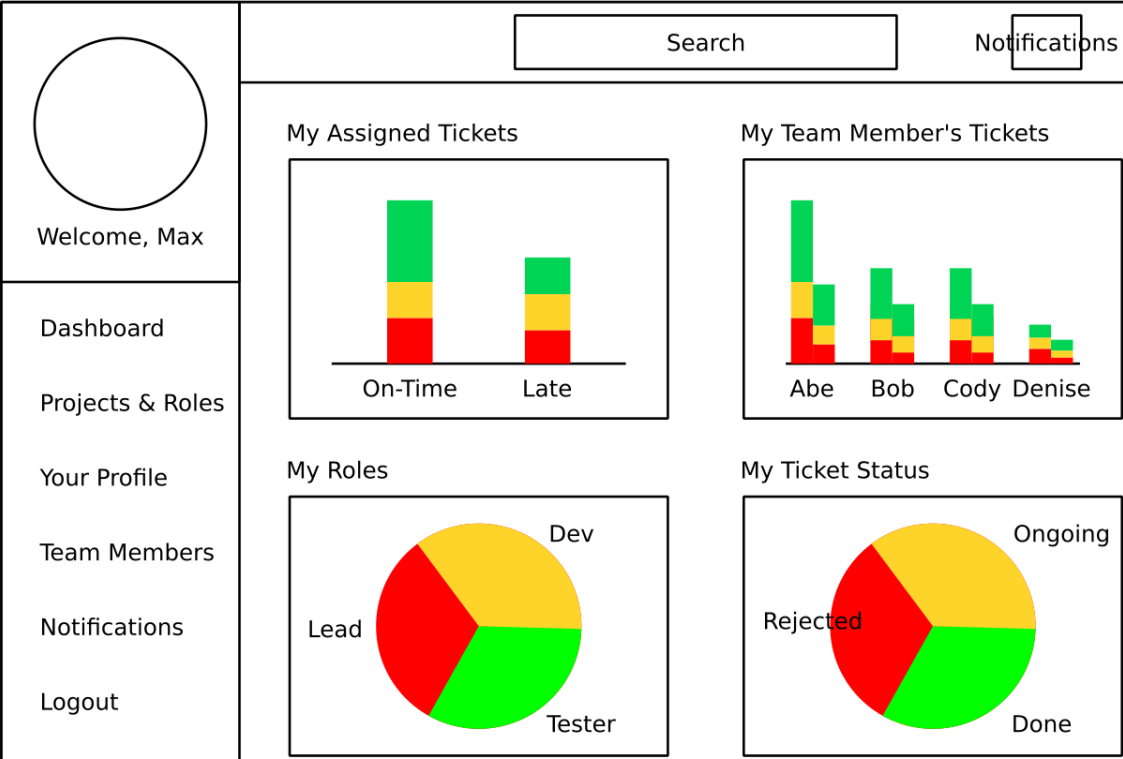
- Progress checking and milestones for each ticket
- Email alerting

### Proposed Technical Architecture

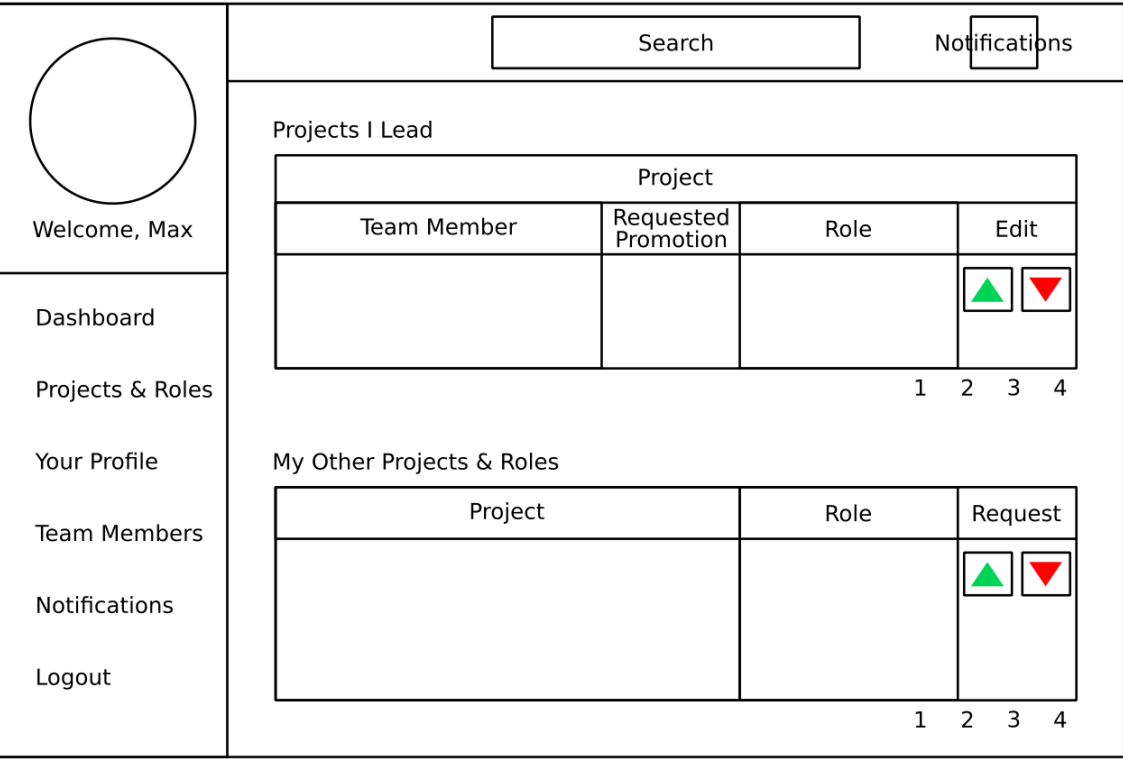
The proposed tech stack used for this project is ASP.NET Core with C#, on an MVC framework. Back-end database is provided by MySQL running on AWS RDS.

# User-Interface

## Main dashboard



## Projects and Roles



User profile

Welcome, Max

Dashboard

Projects & Roles

Your Profile

Team Members

Notifications

Logout

Search

Notifications

UserID: 123456

First Name: Max

Last Name: Ooi

Email: abc123@gmail.com

Edit

Add

Team Members view

Welcome, Max

Dashboard

Projects & Roles

Your Profile

Team Members

Notifications

Logout

Search

Notifications

Team Members

Team Members			Remove
			<div></div>

1234

Search Results

Welcome, Max

Dashboard

Projects & Roles

Your Profile

Team Members

Notifications

Logout

Search

Notifications

Search Results

Users	Add
	<div>+</div>

1234

Single Project view

Welcome, Max

Dashboard

Projects & Roles

Your Profile

Team Members

Notifications

Logout

Search

Notifications

ProjectID: 123456

Lead: Max

Project Name: Project 1

Dev: Abe, Bob

Join as Tester

Tester: Cody, Denise

Tickets	Submitted Date	Deadline	Assignee

1234

Ticket

Welcome, Max

Dashboard

Projects & Roles

Your Profile

Team Members

Notifications

Logout

Search

Notifications

Subject: This is broken

Priority: High

Assigned By: Max

Assigned To: Max

Status: Closed

Description:

TicketID: 123456

Assigned On: 1/1/2020

Deadline: 12/12/2020

Status Updated On: 11/10/2020

Users	Comments	Date

1234

Notifications

Welcome, Max

Dashboard

Projects & Roles

Your Profile

Team Members

Notifications

Logout

Search

Notifications

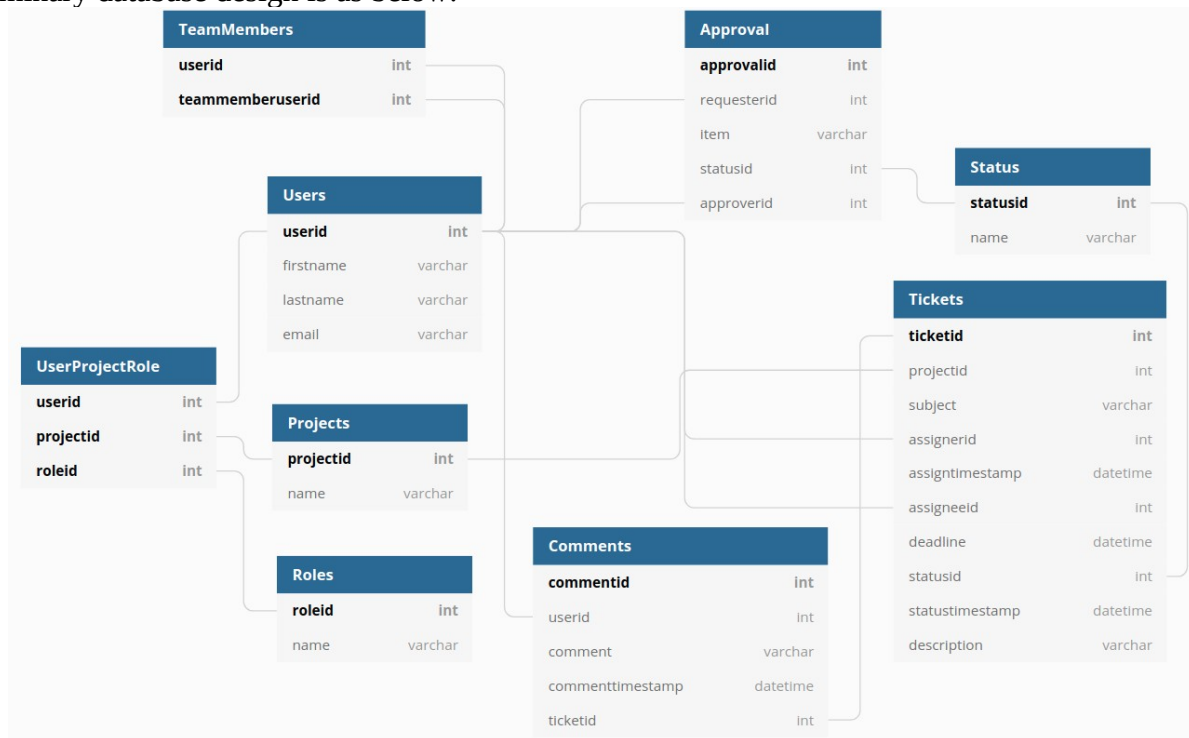
Notifications

Items	Go
	<div></div>

1234

## Database Design

Preliminary database design is as below:



## Milestones and Timeline

[illegible]