

INTRODUCTION

The need for visualizing a source code in UML class diagram is one of the challenges which need to be a way to solve this problem and to let the developers and software engineers have the big idea beside working with source code and also to let the communication between developers stay strong to gain knowledge from each other.

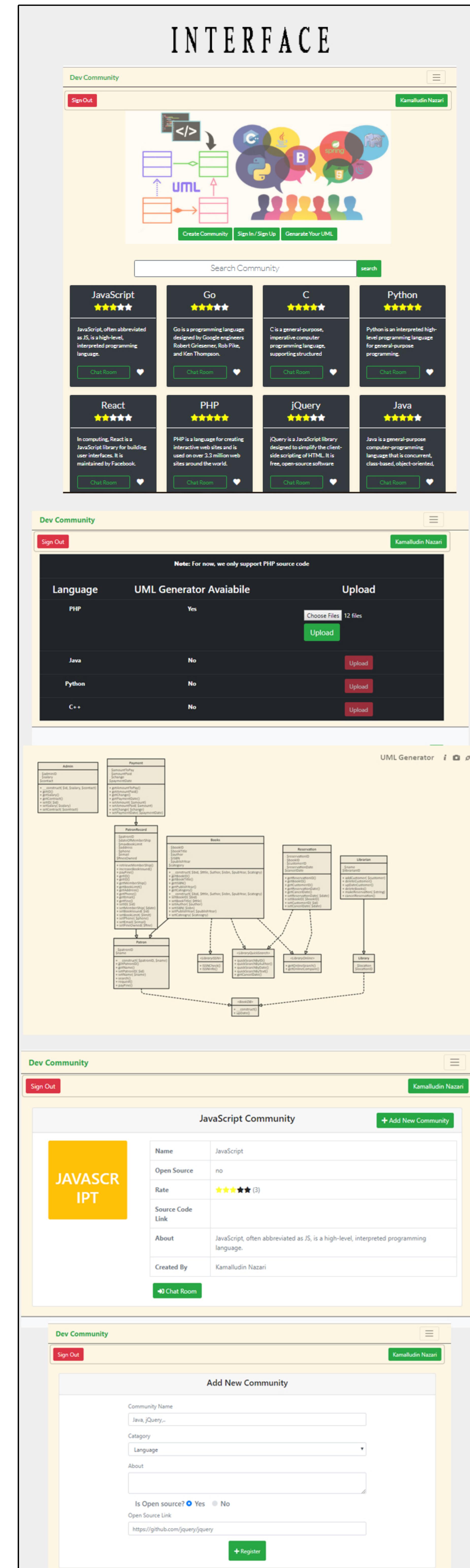
This project is about to create a auto UML class diagram generator as well as a platform for software engineers to stay in touch with their fields.

OBJECTIVE

To create a web application with the following features :

-  To create a auto UML class diagram generator for PHP language.
-  An online community for Software Engineers.
-  A rating system to rate different languages and frameworks.

INTERFACE



The interface consists of several sections:

- Dev Community:** Shows a dashboard with a "Create Community" button, a search bar, and a grid of programming languages with their ratings and descriptions. Languages include JavaScript, Go, C, Python, React, PHP, jQuery, and Java.
- Language Rating:** A table showing the availability of UML generation for various languages: PHP (Yes), Java (No), Python (No), and C++ (No).
- UML Generator:** A UML class diagram for a "Payment System" showing classes like Payment, Order, PaymentMethod, PaymentStatus, and PaymentCategory.
- User Management:** A section for creating new communities, with a form to add a new community named "JavaScript".
- Administrator Panel:** A section for managing users and communities.

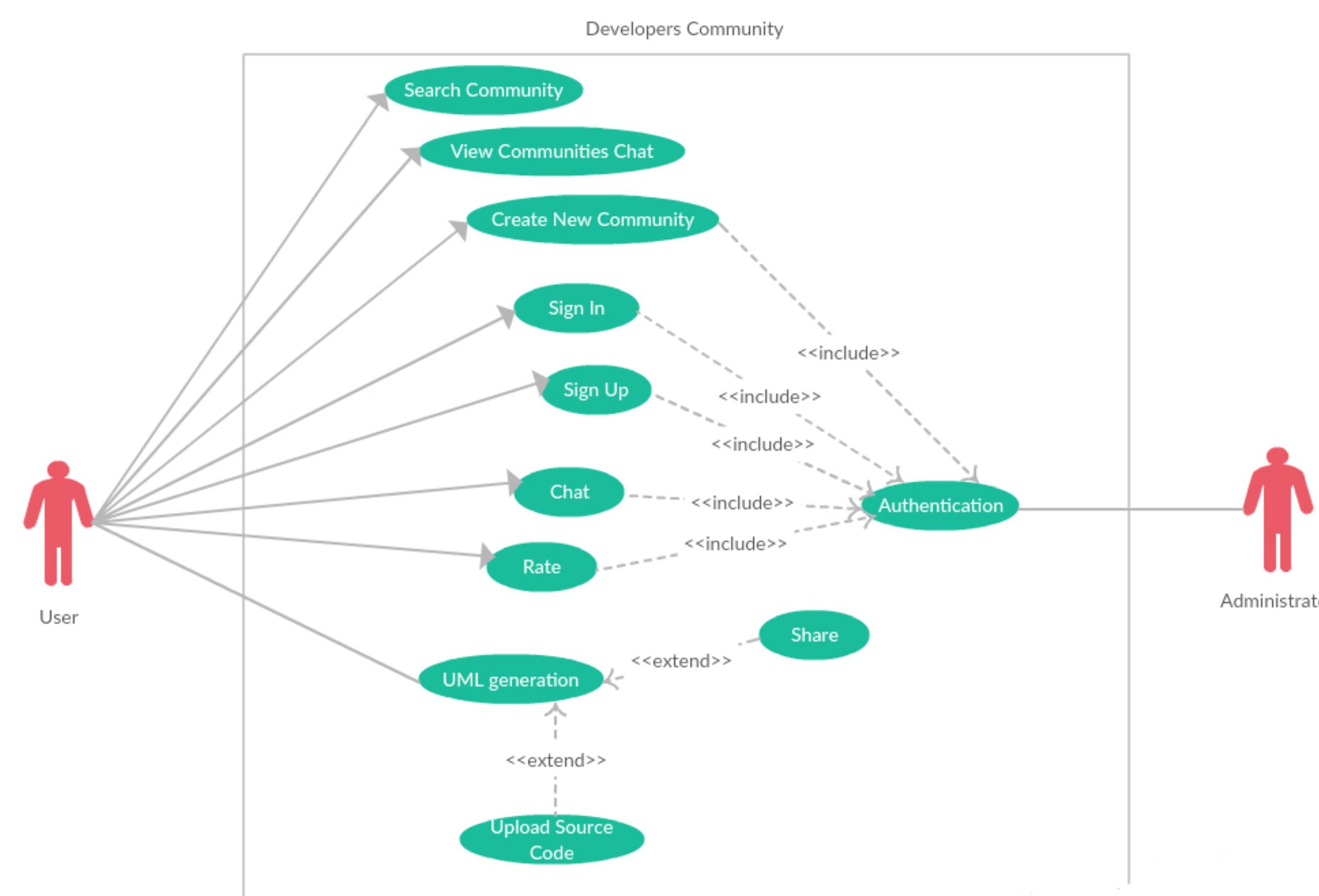
METHODOLOGY

In the client side, there's an interface for users interaction to allow the users to upload their PHP source code and in server side, all the uploaded PHP source code will be analyzed to extract the information about all the classes and relationships among the classes and then by using HTML5 Canvas, there will be generated the UML diagram. Users can download the UML diagram image or share with other developers.

TOOLS

- PHP
- HTML
- CSS
- Javascript
- BootStrap

UseCase Diagram



ACKNOWLEDGEMENT

A special thanks to Prof. Prof. Fathi Alburaai Isa & Prof. Kamal Mansour Jambi who have supervised me for this project.