**WizeStream**

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1. **Introduction**

## Purpose

Over the past hundred years, the educational system never evolved. By the 00’ it improved massively by using a wide range of diﬀerent services and applications to ease the learning experience, such as:

* WhatsApp, Facebook - Forum/messaging tools for group chatting, messy ﬁle sharing system and QA.
* Google Drive, Dropbox - Generic not student-oriented cloud system. Old communication system between students and lecturers, an exercise submission feature and QA option.
* Gool - Non-free on-demand video courses.
* Kahoot - Interactive student teacher app.
* Institution based feedback. wizeStream is a reality which combines and enhances these features and more in to one easy-to-use user-friendly platform.

## Scope

* Create different users with varied roles and scopes.
* User Experience:
  + Live stream video
  + racking course progress
  + wizeStream’s annual extraordinary
* User convenience
  + Grades Average calculator
  + File system
  + Q&A
  + Student answer providing instead of teacher
  + Android/IOS/Web UI
  + Messaging system
* Statistical collection
  + Live feedback
  + Fame system
  + Scoring system
* Security
  + Spamming/Abusive user reporting system
  + Anonymity option
  + General security
* Accessibility
  + Multiple language support

## Definitions, Acronyms and Abbreviation

**HTML** – Hyper Text Markup Language.

**HTTP** – Hypertext Transfer Protocol.

**Doc** – document.

**MongoDB** – Document-oriented database program.

**JavaScript** – Programming language

**Node**.js – JavaScript run-time environment for executing JavaScript code server-side.

**IDE** – Integrated Development Environment. A software application which provides comprehensive facilities to computer programmers for software development.

**Android Studio** – The official IDE for Google’s Android operating system.

**WebStorm** – An IDE primarily for web development.

**AngularJS** – JavaScript front-end web application framework.

## Technologies to be used

# Server API - Node.js

# Database Application - MongoDB

# Development tool - Android Studio and WebStorm

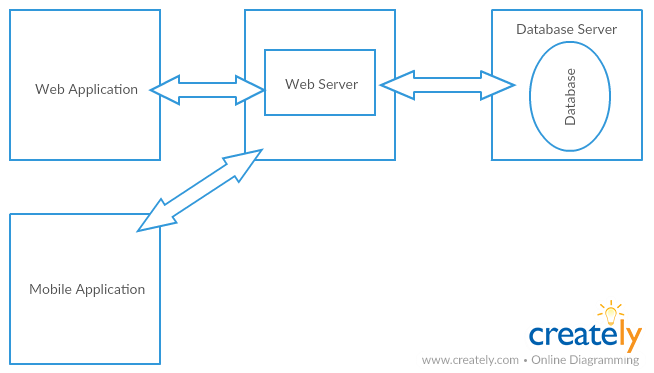
# Front-End framework - AngularJS

## Overview

This project is a tool to help student get better at their studies and to help teachers have a better perspective on their class. wizeStream allows teachers to upload relevant ﬁles, answer students’ questions and improve their teaching methods using wizeStream feedback. With wizeStream students can communicate with their classmates, share ﬁles and enjoy live video streaming, providing the option of live feedback. wizeStream is the best way to gather statistical information for the use of both parties, students and teachers, as well as any department chosen. wizeStream will drive both sides, students and teachers, to thrive using a scoring system. wizeStream will make teaching and learning easier, faster and better.

# Overall Description

## Product Perspective



## Data Dictionary:

1. Student

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Unique** |
| ID | Long | True |
| First name | String | False |
| Last name | String | False |
| Display Name | String | False |
| Email | String | True |
| About me | String | False |
| Facebook ID | Long | True |
| Country | String | False |
| City | String | False |
| Age | Integer | False |
| University | Object – University | False |
| Gender | String | False |
| Courses | Object Array – Course | False |
| Photos | Array | False |
| File System | Object Array - references | True |
| Grades | Object Array – Grade | False |
| Credit | Long | False |
| Fame | Long | False |
| Messages | Object Array – Message | True |
| Register date | Date | False |
| Last updated | Date | False |
| Notifications | Object Array - Notification | True |

1. Teacher

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Unique** |
| ID | Long | True |
| First name | String | False |
| Last name | String | False |
| Display Name | String | False |
| Email | String | True |
| About me | String | False |
| Facebook ID | Long | True |
| Country | String | False |
| City | String | False |
| Age | Integer | False |
| University | Object – University | False |
| Gender | String | False |
| Courses | Object Array – Course | False |
| Photos | Array | False |
| File System | Object Array - references | True |
| Grades | Object Array – Grade | False |
| Credit | Long | False |
| Fame | Long | False |
| Messages | Object Array – Message | True |
| Register date | Date | False |
| Last updated | Date | False |
| Notifications | Object Array - Notification | True |

1. University:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Unique** |
| Name | String | False |
| Teachers | Object Array - Teacher | False |
| Departments | Object Array - Department | False |
| Phones | String Array | False |

1. Department:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Unique** |
| Name | String | False |
| Head | Teacher | False |
| Courses | Object Array - Department | False |
| Teachers | Object Array – Teacher | False |

1. Course:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Unique** |
| Course number | Integer | True |
| Name | String | False |
| Teacher | Teacher | False |
| Students | Object Array – Student | False |
| File System | Object Array - references | True |
| Location | String | False |
| Q&A | Object Array | True |
| Quiz | Object Array | True |
| Test | Test | True |
| Exercises | Object Array | True |
| Points | Integer | False |
| Messages | Object Array – Message | True |
| Register date | Date | False |
| Last updated | Date | False |

1. Test:

|  |  |  |
| --- | --- | --- |
| **Name** | **Type** | **Unique** |
| Name | String | False |
| Teacher | Teacher | False |
| Students | Object Array – Student | False |
| Location | String | False |
| Points | Integer | False |