

- I. Picture Importing
 - A. The System shall allow importing of existing photos from the computer or tablet in use.
 - B. The System shall store student pictures where they can be accessed by the current windows user without elevated permissions.
 - C. The System shall be able to rotate student pictures if they are saved in the wrong orientation.
 - D. The System shall provide a means to easily lookup all student photos stored within it.
 - E. The System shall allow the user to replace a student's photo with an updated version.
 - F. The System shall archive old student's photos for searching.¹
- II. Student Attendance Tracking
 - A. The System shall be able to track students' attendance in various programs over time.
 - B. The System shall be able to display and filter student attendance information in the following ways:
 1. Attendance by students
 2. Attendance by date
 3. Attendance by program
 - C. The System shall be able to display attendance records in both a condensed and uncondensed format.
 1. Uncondensed format shall show one record per attendance record.
 2. Condensed format shall show a count of records per student per program.
 - D. The System shall support navigation to a student's page directly from the attendance view.
 - E. The System shall provide the ability to view an individual student's attendance records on their student page.
 - F. The System will NOT display instructor attendance on the attendance view.
- III. Export System Data
 - A. The System shall be able to export its data to JSON format for backup.
 1. The System shall then be able to use this backup to restore the System state.
 - B. The System shall be able to export the following data to CSV:
 1. Attendance
 2. Students
 3. Programs
 - C. The System shall be able to export the all information in the system's database in an Excel file.
 - D. The System shall be able to filter by students active and inactive when exporting.
 - E. The System shall be able to identify and export all students for use with the Vend HQ.

- F. The system shall export data for Constant Contact.
 - 1. The System shall allow exporting student information.
 - 2. The System shall provide options to export the data of active students or inactive students.
 - 3. The System shall provide options to export the data of all students in a specific program.
- IV. Student Records Management
 - A. The System shall be able to track student achievements over time.
 - B. The System shall be able maintain a history of student photos for record-keeping.
 - C. System shall be able to easily add new student photos without deleting the old ones.
 - D. The System shall be able to track student rank and progression.
 - 1. The System shall be able to support ranks for students based on belt color.
 - a) One belt per student at any one time.
 - 2. The system shall start new students enrolled in any program with a white belt.
 - 3. Students shall be able to obtain stripes which represent increments of improvement between belts.
 - a) Stripes may be defined with different colors.
 - 4. When a student receives a new belt, all current stripes associated with that student shall be removed.
 - E. The System shall support student enrollment in more than one program.
 - F. The System shall provide the ability for instructors or admins to move students between programs.
 - G. The System shall be able to mark a student as active or inactive based on manual input from an admin.
 - H. Instructors shall not be permitted to edit a student's contact and personal information.
 - I. Instructors and Admins shall be allowed to edit student belts and stripes.
 - J. The System shall support uploading scanned waiver forms.
- V. Student Check-in
 - A. The System shall display which students have been checked in and which have not.
 - 1. The System will fade pictures of those checked in.
 - 2. The System will put checkmarks on the pictures of those checked in.
 - B. The System shall support students being checked into programs.
 - 1. The System shall be able to track when someone is checked in as a student only
 - 2. The System shall allow someone to be checked into multiple programs in the same day if they do not overlap.
 - C. The System shall use case-insensitive sorting for its alphabetical filter.

- D. The System shall display the number of students checked into the current program as well as the total number of students in the program.
 - E. The System shall use pictures for checking in.
 - F. The System shall display the belt and stripes for each student.
 - G. When a student touches their picture on the check-in screen, a confirmation modal with the student's picture shall appear.
- VI. Instructor Check-in
- A. The System shall display and allow editing (check-in/out) of all checkins for a selected date (defaults to current date).
 - 1. There will be no confirm modal while checking in students as an instructor/admin.
 - B. The System shall allow filtering students by belt.
 - C. The System shall display the belt and stripes for each student.
 - D. The System shall display and allow for checking in instructors.
 - E. The System shall allow for quickly viewing or editing a student from the instructor check-in page.
- VII. Student Registration Forms
- A. The System shall require at least one emergency contact to be provided in the registration form.
 - B. The System shall allow a secondary emergency contact to be provided in the registration form.
 - C. The System shall be able to support input of a primary and secondary phone numbers as well as one or more email addresses.
 - D. The System shall support a partial registration, where only a name, program, and (phone number or email address) are required.
 - E. The System shall require either a phone number or email defined in the partial registration in order to complete it.
 - F. The System shall allow a student to be enrolled into a program during student registration.
 - G. Waivers
 - 1. The system shall display the Tioga Tae Kwon Do waiver as a step in registration.
 - 2. The System shall always require a student signature for the waiver.
 - 3. The System shall require a guardian signature in addition to student signatures on waivers if the student is under 18 years of age.
 - H. The System shall have a final review screen where all the entered information is displayed before submitting the form in order to help the user confirm their information.
- VIII. System Usability
- A. All student-facing pages shall load in less than 500ms.
 - B. All admin screens loading student attendance records shall load in less than 3 seconds.

- C. The System shall format names and proper nouns to begin with capital letters.
 - 1. The System shall store all names and titles with proper capitalization.
 - D. The System shall sort strings throughout the entire system case insensitively.
 - E. The System shall provide a means of easily backtracking within the UI.
 - F. The System shall ensure that icons remain consistent after several rotations of the tablet.
 - G. The System shall support the device's camera for use with taking pictures.
 - H. The System shall be allow the user to select UI elements on a touch screen.
 - I. The System shall correctly display all web elements at minimum resolutions of 1280x800 and 800x1280 pixels and function as intended.
- IX. Programs
- A. The System shall afford a way to create a new program.
 - B. The System shall store a currently selected program that will be the program that students are checked into.
 - C. The System shall afford a way to easily change the current program.
 - D. The System will allow updating an existing program's:
 - 1. Name
 - 2. Active Status
 - 3. Student Instructors
 - 4. Program Students
- X. Authorization
- A. The System shall provide a means of access control to make sure people can't access pages for which they should not be able to (reference separate permissions list). Roles should exist for the following types:
 - 1. Admin
 - 2. Instructor
 - 3. Student (no login / no permissions)
 - B. The System shall allow both admins and instructors to change their own passwords.
 - C. The System shall allow admins to manage all users who are not themselves.
 - D. The System shall allow admins to create new instructors and admins.
 - E. The System shall allow admins to delete instructors and admins who are not the current user.
 - F. The system shall allow admins to reset the password of other users.
- XI. Miscellaneous
- A. The System shall support the Google Chrome browser.
 - B. The user shall be able to add new belts and stripes to the System
 - C. The admin shall be able to modify the following information for existing belts and stripes in the System.
 - 1. Belt/stripe name
 - 2. Color (as a hex value)
 - a) Belts will have primary and secondary colors.

Team Kwon Do

Requirements Document

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3. Active status