PROJECT
HORSESHOE
FARM

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System Metaphor

Horseshoe Farms has requested a webpage which can help streamline their online tutoring process. Students should be able to log into a website, see notifications, and navigate to tutoring materials easily. Based on the day, either reading or math materials will be presented.

Cycle Intent

- Communication with database

- PDF implementation

- Refine visuals

- GoDaddy Research

- On-site study

User Stories

Students

No Password

Simple Navigation

Notifications

Progress via Horseshoes

Tutor for the Day

Math via Khan & PDF

Reading Via Kindle

Admins

Password Required

Table of Students & Tutors

View Student Info

View Tutor Info

Match Students and Tutors

Team Leader

Password Required

Take attendance

Make Reccomendations
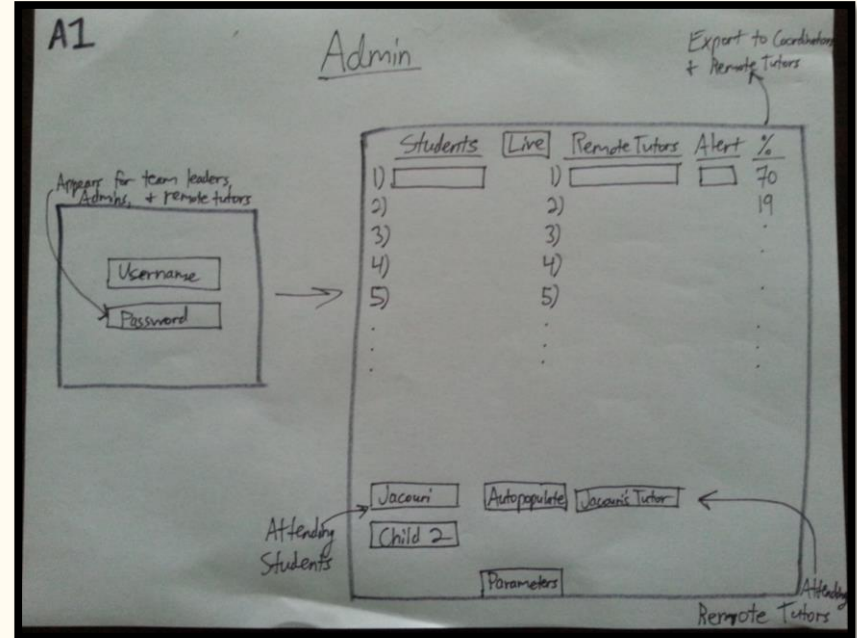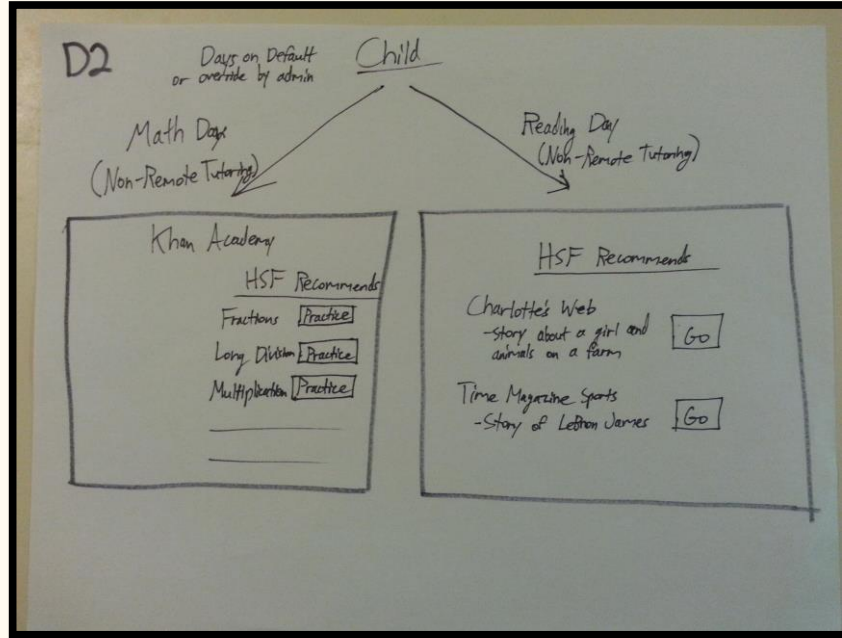
View Student Info

Tutors

Password Required

Student Tutoring Schedule

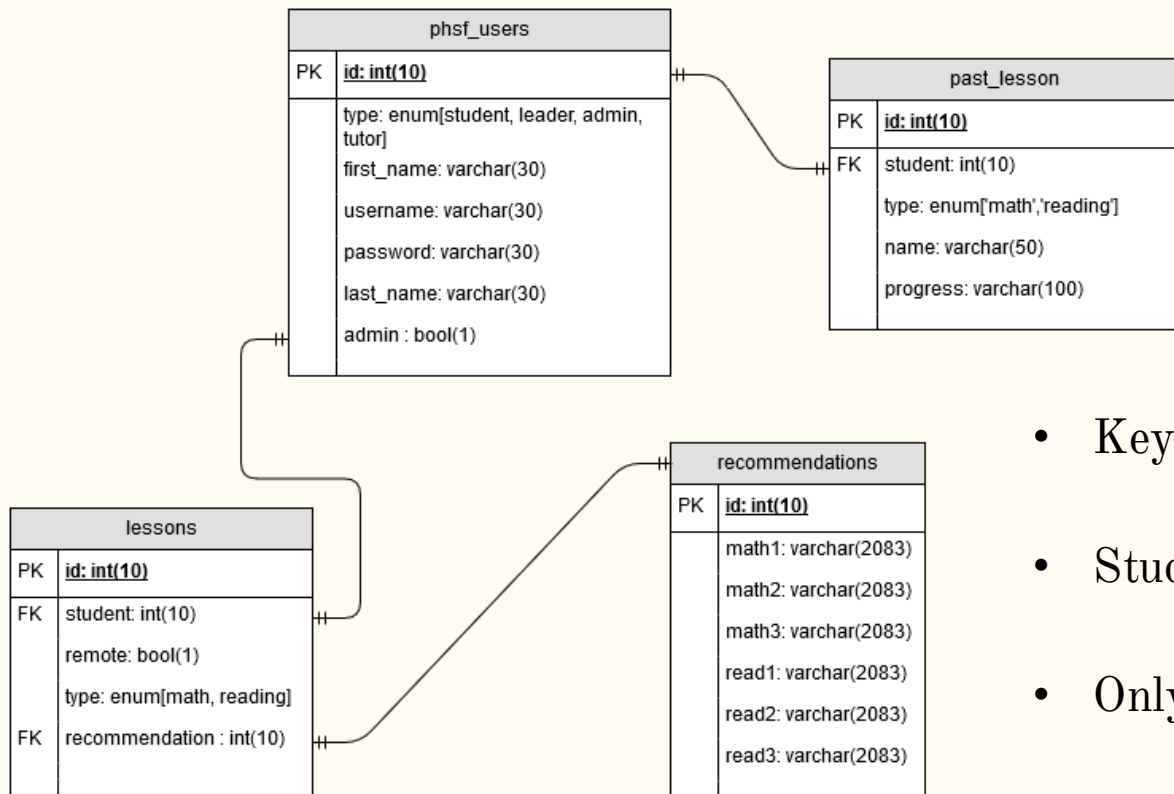View Student Info

Join Session When Ready

Design Discussion

- Met with sponsors on-site

  - Greater understanding of the process and of desired features

- Received sketches and complete feature list from Dr. Dorsey

  - Ensures we are all on the same page

- Worked with sponsors to determine a stopping point

Design Discussion

Design Discussion

phsf_users

PK	**id: int(10)**
	type: enum[student, leader, admin, tutor]
	first_name: varchar(30)
	username: varchar(30)
	password: varchar(30)
	last_name: varchar(30)
	admin : bool(1)

past_lesson

PK	**id: int(10)**
FK	student: int(10)
	type: enum['math','reading']
	name: varchar(50)
	progress: varchar(100)

lessons

PK	**id: int(10)**
FK	student: int(10)
	remote: bool(1)
	type: enum[math, reading]
FK	recommendation : int(10)

recommendations

PK	**id: int(10)**
	math1: varchar(2083)
	math2: varchar(2083)
	math3: varchar(2083)
	read1: varchar(2083)
	read2: varchar(2083)
	read3: varchar(2083)

- Keys used to maintain relations

- Stuck to simple 1:1 relationships

- Only stored what was necessary

Plan

- Talky.io and TeamViewer

- Admin plan student lesson

- Move current progress to GoDaddy

- Student resume reading from last page

Process Discussion

- Agile

  - Class structure lends itself to agile process

  - Prioritization required for large number of user stories

- Methods

  - Frequent meetings both within team and with sponsors

  - Centered on user stories as described by sponsors

  - Pair programming

Lessons Learned

- Security risks of opening TeamViewer from browser
  - Executable launch icon

- Passing PHP variables to external JS
  - PHP parameter passing

- Increased GoDaddy package for network load
  - Suggestion to upgrade made to sponsor

- Security issues with embedding document
  - Going to speak with sponsor

Product Demonstration