Paraprofessional Management System (PMS)

Team Ubuntu
Precious, Shohei, and Nathaniel

Background

- HPU's Center for Academic Success, Tutoring Division, is in need of a solution to enhance their services.
- The tutoring center at HPU is currently using a software called the "Tutoring Management System" (TMS) that collects data and helps function tutoring operations.
- Meg Hassey, Academic Specialist of CAS, would like a new application that will replace the current software. She hopes that with a new and improved application, performance, management, and operation will run more efficiently.

Stakeholders

Nathaniel Befus : Lead Programmer

Precious Lee Binas : Programmer/Designer

Shohei Sasahara : Basic designer/Writer

Meg Hassey : Client

Andrew Alimbuyuguen : Logo Designer

Abe Toma : IT Department

Problems of TMS

Our client, Meg, had been telling Precious that TMS has some issues.

- Required repetitive typing
- Incorrect report
- Not user-friendly UI
- Agenda that requires HTML knowledge
- Complicated functionality
- Inefficient database schema with no relations
- Duplicated / old data

Survey for Improvements

TMS Survey
What works? What doesn't? What needs to be added?

Students from CSCI 4991 has volunteered to recreate our TMS as their senior capstone project J Feedback from staff/tutors/mentors/sias would be of great value. Please turn this in by ???????

- What types of features would you like to see improved on the TMS?

- What features do you think are unnecessary?

- Suggest additional features you would like to see that is currently not a feature, but would be of great value if implemented.

Client Requirements

ADMIN VIEW

- Real time updates
- List of employees currently working
- Record of student's first and last name, course # and alpha, professor, tutor and tutor's specialty area, time session began, end, and arrival of student, minutes of session, start and stop button, # of session based on 30, # of walkouts
- minutes to change colors at 25 since each session is 30 minutes
- New tutor - Just input first and last name, of which only the first name will appear on the front screen and first initial of last name if duplicate first names.Also, to included the date started and the date terminated
- Tutor list will contain only active tutors and terminated tutors will be archived
- Ability to edit both tutor data
- Session searches by student first or last name,by course # and/or alpha, by instructor, and by date (any other ideas would definitely be considered)
- I like the search section
- Give number for give time frame, subject, professor,student, tutor, course, etc for one of these areas or for all depending on the request
- Report data only from those time frames to include
  - requested info
  - easily manipulated to show amounts of different classes, different types of tutoring (LANG, MABS, ENG), average amount of time
    - Maybe show these through graphs?
  - Show amount of sessions, students, walkouts
  - First time users
  - Continuous users
  - # of session in the time frame requested
  - student/ session ratio
  - HLC data by itself as well as with Downtown data

Client Requirements

SIA VIEW

- The start and stop button
- Ability to edit sessions
- Color coding the MABS, ENG, LANG tutors (instead of color coding, we allowed sessions to be sorted by the single click feature)
- Notifications:
    - Numbers change color at 25 to warn of session ending
    - Better notification of 5 minutes left in session, make it pop somehow
    - Session reminder at 5 minutes before the half hour, hour ,hour and a half, etc
- Editing
    - When editing a session only have the tutors that are currently working at the Center for that semester to pop up.
    - HLC section to add information from that location with HLC already stamped on it
- Color coordination type with tutoring session
- Entering DATA
    - When entering data only have the tutors that are currently working that day pop up
    - Search option for courses and professors
    - Drop down lists for Professors
    - Drop down list for course numbers
    - Input student ID and information pops up but ID number "#####"to keep confidential. (we used email instead of student id)
- Scheduling
    - Ability to input tutors for the day/week/semester to make a schedule for SIAs to easily access to see who's working
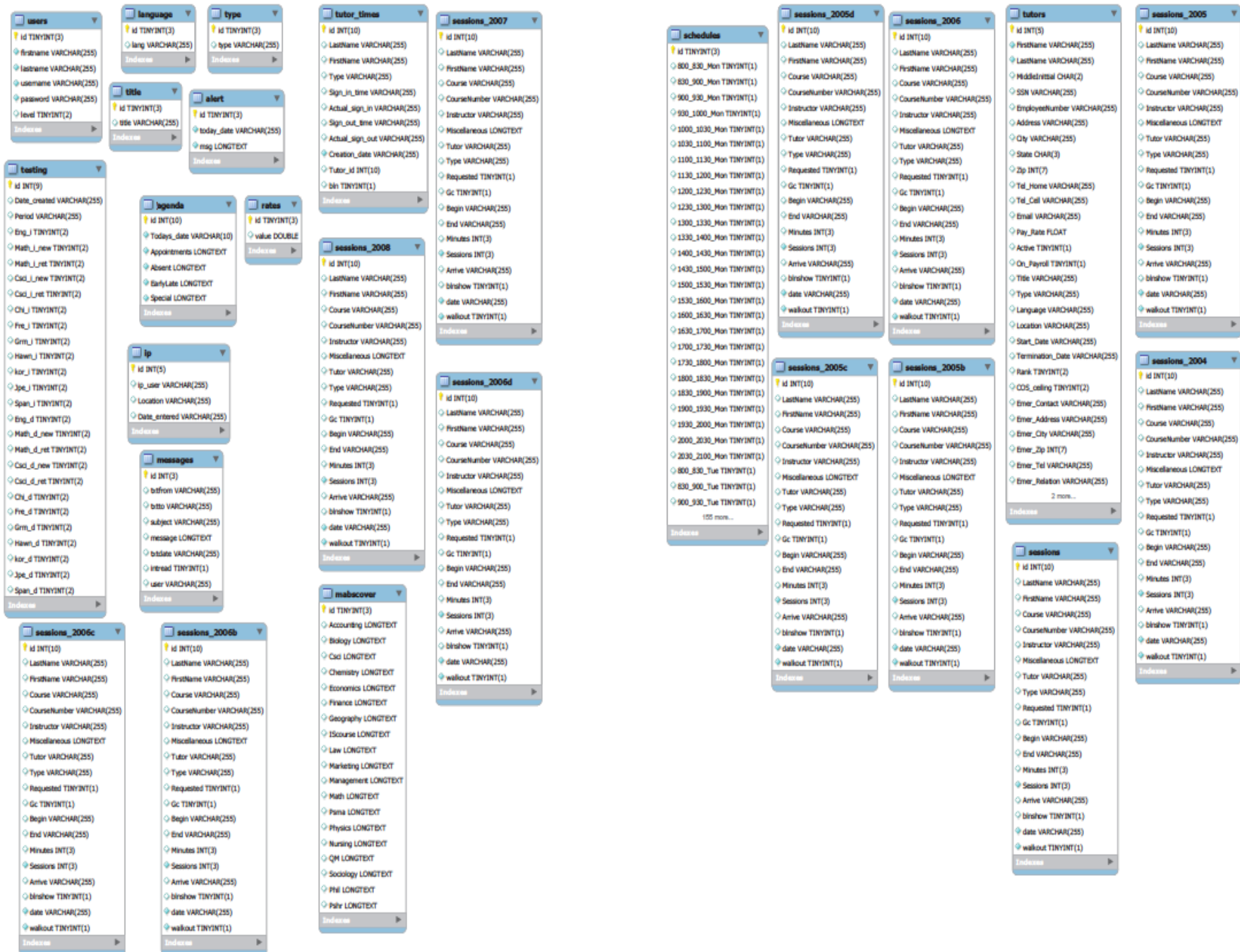   - Calendar for appointments

Infrastructure

- Languages
  - Java
  - MySQL
- Tools
  - Netbeans 7.2.1 / Netbeans GUI Builder
  - Java Libraries
  - ~~Hibernate~~
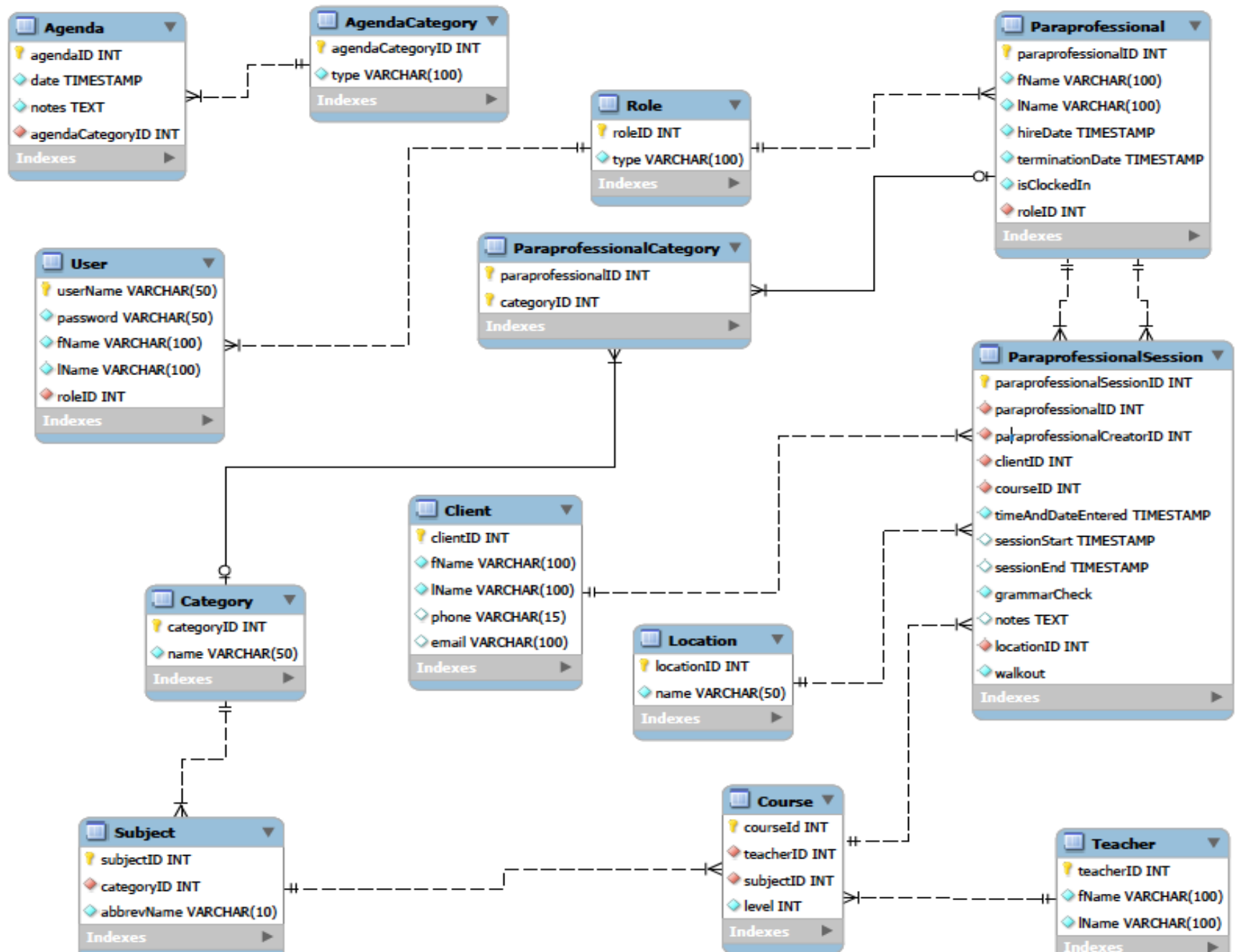 - MySQL Workbench
  - PHPMyAdmin

Architecture

Existing Architecture

TMS DATABASE DIAGRAM

users
- id TINYINT(3)
- firstname VARCHAR(255)
- lastname VARCHAR(255)
- username VARCHAR(255)
- password VARCHAR(255)
- level TINYINT(2)
- Indexes

language
- id TINYINT(3)
- lang VARCHAR(255)
- Indexes

type
- id TINYINT(3)
- type VARCHAR(255)
- Indexes

title
- id TINYINT(3)
- title VARCHAR(255)
- Indexes

alert
- id TINYINT(3)
- today_date VARCHAR(255)
- msg LONGTEXT
- Indexes

testing
- id INT(9)
- Date_created VARCHAR(255)
- Period VARCHAR(255)
- Eng_i TINYINT(2)
- Math_i_new TINYINT(2)
- Math_i_ret TINYINT(2)
- Csci_i_new TINYINT(2)
- Csci_i_ret TINYINT(2)
- Chi_i TINYINT(2)
- Fre_i TINYINT(2)
- Grm_i TINYINT(2)
- Hawn_i TINYINT(2)
- kor_i TINYINT(2)
- Jpe_i TINYINT(2)
- Span_i TINYINT(2)
- Eng_d TINYINT(2)
- Math_d_new TINYINT(2)
- Math_d_ret TINYINT(2)
- Csci_d_new TINYINT(2)
- Csci_d_ret TINYINT(2)
- Chi_d TINYINT(2)
- Fre_d TINYINT(2)
- Grm_d TINYINT(2)
- Hawn_d TINYINT(2)
- kor_d TINYINT(2)
- Jpe_d TINYINT(2)
- Span_d TINYINT(2)
- Indexes

agenda
- id INT(10)
- Todays_date VARCHAR(10)
- Appointments LONGTEXT
- Absent LONGTEXT
- EarlyLate LONGTEXT
- Special LONGTEXT
- Indexes

rates
- id TINYINT(3)
- value DOUBLE
- Indexes

ip
- id INT(5)
- ip_user VARCHAR(255)
- Location VARCHAR(255)
- Date_entered VARCHAR(255)
- Indexes

messages
- id INT(3)
- brtfrom VARCHAR(255)
- brtto VARCHAR(255)
- subject VARCHAR(255)
- message LONGTEXT
- brtdate VARCHAR(255)
- intread TINYINT(1)
- user VARCHAR(255)
- Indexes

tutor_times
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Type VARCHAR(255)
- Sign_in_time VARCHAR(255)
- Actual_sign_in VARCHAR(255)
- Sign_out_time VARCHAR(255)
- Actual_sign_out VARCHAR(255)
- Creation_date VARCHAR(255)
- Tutor_id INT(10)
- bln TINYINT(1)
- Indexes

sessions_2008
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

mabscover
- id TINYINT(3)
- Accounting LONGTEXT
- Biology LONGTEXT
- Csci LONGTEXT
- Chemistry LONGTEXT
- Economics LONGTEXT
- Finance LONGTEXT
- Geography LONGTEXT
- IScourse LONGTEXT
- Law LONGTEXT
- Marketing LONGTEXT
- Management LONGTEXT
- Math LONGTEXT
- Psma LONGTEXT
- Physics LONGTEXT
- Nursing LONGTEXT
- QM LONGTEXT
- Sociology LONGTEXT
- Phil LONGTEXT
- Pshr LONGTEXT
- Indexes

sessions_2007
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2006d
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2006c
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2006b
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

schedules
- id TINYINT(3)
- 800_830_Mon TINYINT(1)
- 830_900_Mon TINYINT(1)
- 900_930_Mon TINYINT(1)
- 930_1000_Mon TINYINT(1)
- 1000_1030_Mon TINYINT(1)
- 1030_1100_Mon TINYINT(1)
- 1100_1130_Mon TINYINT(1)
- 1130_1200_Mon TINYINT(1)
- 1200_1230_Mon TINYINT(1)
- 1230_1300_Mon TINYINT(1)
- 1300_1330_Mon TINYINT(1)
- 1330_1400_Mon TINYINT(1)
- 1400_1430_Mon TINYINT(1)
- 1430_1500_Mon TINYINT(1)
- 1500_1530_Mon TINYINT(1)
- 1530_1600_Mon TINYINT(1)
- 1600_1630_Mon TINYINT(1)
- 1630_1700_Mon TINYINT(1)
- 1700_1730_Mon TINYINT(1)
- 1730_1800_Mon TINYINT(1)
- 1800_1830_Mon TINYINT(1)
- 1830_1900_Mon TINYINT(1)
- 1900_1930_Mon TINYINT(1)
- 1930_2000_Mon TINYINT(1)
- 2000_2030_Mon TINYINT(1)
- 2030_2100_Mon TINYINT(1)
- 800_830_Tue TINYINT(1)
- 830_900_Tue TINYINT(1)
- 900_930_Tue TINYINT(1)
- 155 more...
- Indexes

sessions_2005d
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2005c
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2006
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2005b
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

tutors
- id INT(5)
- FirstName VARCHAR(255)
- LastName VARCHAR(255)
- MiddleInitial CHAR(2)
- SSN VARCHAR(255)
- EmployeeNumber VARCHAR(255)
- Address VARCHAR(255)
- City VARCHAR(255)
- State CHAR(3)
- Zip INT(7)
- Tel_Home VARCHAR(255)
- Tel_Cell VARCHAR(255)
- Email VARCHAR(255)
- Pay_Rate FLOAT
- Active TINYINT(1)
- On_Payroll TINYINT(1)
- Title VARCHAR(255)
- Type VARCHAR(255)
- Language VARCHAR(255)
- Location VARCHAR(255)
- Start_Date VARCHAR(255)
- Termination_Date VARCHAR(255)
- Rank TINYINT(2)
- COS_ceiling TINYINT(2)
- Emer_Contact VARCHAR(255)
- Emer_Address VARCHAR(255)
- Emer_City VARCHAR(255)
- Emer_Zip INT(7)
- Emer_Tel VARCHAR(255)
- Emer_Relation VARCHAR(255)
- 2 more...
- Indexes

sessions
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2005
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

sessions_2004
- id INT(10)
- LastName VARCHAR(255)
- FirstName VARCHAR(255)
- Course VARCHAR(255)
- CourseNumber VARCHAR(255)
- Instructor VARCHAR(255)
- Miscellaneous LONGTEXT
- Tutor VARCHAR(255)
- Type VARCHAR(255)
- Requested TINYINT(1)
- Gc TINYINT(1)
- Begin VARCHAR(255)
- End VARCHAR(255)
- Minutes INT(3)
- Sessions INT(3)
- Arrive VARCHAR(255)
- blnshow TINYINT(1)
- date VARCHAR(255)
- walkout TINYINT(1)
- Indexes

New Architecture

PMS DATABASE DIAGRAM

Agenda
- agendaID INT
- date TIMESTAMP
- notes TEXT
- agendaCategoryID INT

Indexes

AgendaCategory
- agendaCategoryID INT
- type VARCHAR(100)

Indexes

Role
- roleID INT
- type VARCHAR(100)

Indexes

Paraprofessional
- paraprofessionalID INT
- fName VARCHAR(100)
- lName VARCHAR(100)
- hireDate TIMESTAMP
- terminationDate TIMESTAMP
- isClockedIn
- roleID INT

Indexes

User
- userName VARCHAR(50)
- password VARCHAR(50)
- fName VARCHAR(100)
- lName VARCHAR(100)
- roleID INT

Indexes

ParaprofessionalCategory
- paraprofessionalID INT
- categoryID INT

Indexes

ParaprofessionalSession
- paraprofessionalSessionID INT
- paraprofessionalID INT
- paraprofessionalCreatorID INT
- clientID INT
- courseID INT
- timeAndDateEntered TIMESTAMP
- sessionStart TIMESTAMP
- sessionEnd TIMESTAMP
- grammarCheck
- notes TEXT
- locationID INT
- walkout

Indexes

Client
- clientID INT
- fName VARCHAR(100)
- lName VARCHAR(100)
- phone VARCHAR(15)
- email VARCHAR(100)

Indexes

Category
- categoryID INT
- name VARCHAR(50)

Indexes

Location
- locationID INT
- name VARCHAR(50)

Indexes

Subject
- subjectID INT
- categoryID INT
- abbrevName VARCHAR(10)

Indexes

Course
- courseId INT
- teacherID INT
- subjectID INT
- level INT

Indexes

Teacher
- teacherID INT
- fName VARCHAR(100)
- lName VARCHAR(100)

Indexes

Client Satisfaction

"Team Ubuntu took on the challenge of revamping our outdated and complicated Tutor Management System (TMS). While attending the Capstone Symposium, I was able to see the revamped system, live. My first observation was that Team Ubuntu incorporated the changes that were suggested like dropdown menus for professors and the list of tutors included only the current student employees. Additionally, the reports showed accurate numbers and graphs to visually depict the data. The system seems instinctive and user-friendly. These are important characteristics because of the variety of people that will have access to this program. Often it is hard to change the old, so a user-friendly interface should help sway their concern. I look forward to the opportunity to learn more about the backend and administrative functions of the program. I still have some ideas for the program, but it seems that backend and coding are easier than the TMS program to manipulate and change. This means that it will be a smooth transition for IT when they take over the upkeep of the program. Overall, I am very excited with the PMS system that Team Ubuntu created and hope that it will be implemented at the Center soon. " - Meg Hassey

Design Decisions

Initial Design

Design Preview [Screen1]

fname	lname	Phone	Email	course	course#	teacher	Category	Notes	tutor			Creator

☐ Future   ☐ GC

Add Session

First Name	Last Name	Title 3	Title 4

Improved Design

Sessions / Agenda

☑ AutoComplete

Student Information

First Name* [▼] Last Name* [▼] Email [▼] Phone [▼]

Course Information

Course* [▼] Course#* [▼] Teacher* [▼] Category* [▼] Paraprofessional* [▼]

Other Information

Location* [▲▼] Creator* [▼] Notes [   ] Session Start [mm/yyyy hh:mm aa] Session End [n/yyyy hh:mm:ss aa] ☐ GC ☐ Walkout

Clear   Add Session   Save

Current Sessions

First	Last	Email	Phone

Delete Session

Future Sessions

First	Last	Email	Phone

Future Sessions

First	Last	Email	Phone

Delete Session

Create New Agenda

(mm/dd/yyyy hh:mm a.a.)

Category: [▼]   Date: [   ]

Cancel   Submit

Agendas

Title 1	Title 2	Title 3	Title 4

Delete Agenda

Final Design

PMS

PARAPROFESSIONAL MANAGEMENT SYSTEM

Create | Agenda | Sessions | Reports | Search

Create

Student Information

First Name*   Last Name*   Email   Telephone

Course Information

Course*   Course#*   Teacher*

Session Information

Paraprofessional*   Notes   Session Start   dd/mm/yyyy hh:mm aa

Creator*   Session End   dd/mm/yyyy hh:mm aa

Location*   ☐ Walkout   ☐ GC

Clear

New Student

Save/Edit

Add Session

Refresh Lists

PARAPROFESSIONAL MANAGEMENT SYSTEM

Create | Agenda | Sessions | Reports | **Search**

○ Client ○ Course ○ Sessions ○ Teacher ○ Paraprofessional ○ Paraprofessional Category ○ Role ○ Location ○ Categ

Student Information

First Name: [▾]   Last Name: [▾]   Email: [▾]   Phone: [▾]

Course Information

Course#: [▾]

Session Information

Session Start: [ı/dd/yyyy hh:mm aa]   Session End: [d/yyyy hh:mm:ss aa]   Grammar Check: [Either ↕]

Notes: [ ]   Entered Date: [ı/dd/yyyy hh:mm aa]   Walkout: [Either ↕]

Paraprofessional Information

First Name: [▾]   Last Name: [▾]   hireDate: [mm/dd/yyyy]   terminationDate: [mm/dd/yyyy]   Clocked In: [Either ↕]   Role: [ ]

Paraprofessional Creator Information

First Name: [▾]   Last Name: [▾]   hireDate: [mm/dd/yyyy]   terminationDate: [mm/dd/yyyy]   Clocked In: [Either ↕]   Role: [ ]

Version Control

Team Communication Methods

- Google Hangout
- Messages / Email
- Weekly team meeting

Management Techniques Used

- Google Drive
  - Having separated folders
    - TMS Class Diagram
    - TMS Use Case Diagram
    - TMS UI
    - Project Proposal
  - Backlog
  - Meeting Log
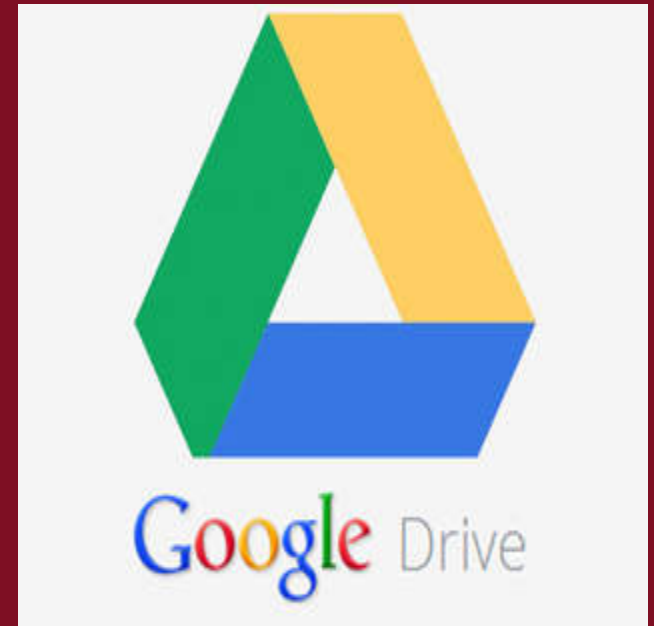
	TITLE	OWNER	LAST MODIFIED
☐ ☆ 📁	Docs Related to IT department	me	Mar 1 me
☐ ☆ 📁	TMS Class Diagram / Use Case / Features	me	4:50 pm me
☐ ☆ 📁	TMS Database Related	me	4:51 pm me
☐ ☆ 📁	TMS Documents with Meg	me	4:52 pm me
☐ ☆ 📁	TMS Project Proposal	me	4:50 pm me
☐ ☆ 📁	TMS UI	me	4:51 pm me
☐ ☆ 📄	Backlog Shared	Nathaniel Befus	Apr 28 Nathaniel Befus
☐ ☆ 📄	Capstone Symposium Application Form Shared	me	Apr 4 me
☐ ☆ 📄	Checklist(Backlog)	me	Apr 2 me
☐ ☆ 📄	Meeting Log Shared	me	Apr 18 me
☐ ☆ 🟧	PMS Presentation Shared	Nathaniel Befus	5:03 pm me

Problems Encountered

- Complexity of the project
  - Existing database
    - Inefficient / Idle structure
  - IT Department
    - Approval requirements
    - Inaccessible datas
- Hibernate
    - Too advanced for the 3 month project

Testing Strategy

- Team testing and criticizing
- Netbeans Java Compiler
- Boundary Cases
- Multiple Platform
  - Mac 10.8.3 / Windows 7
  - Convert to .jar
  - Window size
- Fake and real data

Turnover of Project to Client

1. Getting approval from IT department
2. Compiling the application (jar file)
3. Creating comprehensive video tutorial
4. Submitting the video tutorial
5. Submitting an extensive documentation
6. Submitting the database schema / structure diagrams
7. Installing the application

Summary of Interaction with Client

- Message / Email
- Meeting at the tutoring center
    - Precious is a worker at the tutoring center who informed client with updates

Documentation of Project

- Use case diagram google drive
- Database diagram
- Javadoc
- Video tutorial

days - - days to subtract from the date

Returns:

the resulting date

updateBoxes

`public void updateBoxes()`

Updates the search tab comboboxes

makeEditSearchCellEditor

`public javax.swing.DefaultCellEditor makeEditSearchCellEditor()`

Creates the cell editor to edit search result data on search tab on double click

Returns:

the cell editor for the search tab table to create dialog to edit on double click

autoResizeColWidth

`public static javax.swing.JTable autoResizeColWidth(javax.swing.JTable table)`

Resize the width of a table to fit data

Parameters:

table - - the table to resize

Returns:

the table resized

setUpSearchTab

`public void setUpSearchTab()`

Set up the search tab for the database interaction with the admin

download

`public void download(javax.swing.JTable table)`
`            throws java.io.IOException`

Download table data to an excel (CSV) file

Parameters:

table - - the table to download data from

Throws:

java.io.IOException

Lessons Learned

www.free-smiley-faces.de

Lessons Learned

- Planning is important
- In person meeting is stronger than virtual meeting
- Do not trust a software that you are not familiar with too much (e.g Hibernate)
- Redesigning something may be more difficult than starting from a scratch
- THERE IS NO "I" IN "TEAM"

Criteria for Application Being Done

- Our project is not in full production at this stage - 0%
- Client Requirements - 90%
- Client Satisfaction - 99.99%

Possible Future Work

- To be be discussed with client...
  - Possibly...
    - Add more graphs
    - Q&A communication
    - User account management
      - 'Forgot Password' functionality

Thank You...

Dr. Curt Powley
Our classmates
Meg Hassey

NOW THE FUN STUFF