Project – GSU CS Tutoring Center Application
Software Engineering – Summer 2020
Team LookSmart

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Table of Contents

Team Capabilities Description…….3
Planning and Scheduling……..4
Teamwork Basics……..……..4
Project Requirements…..……..6
Context Model……..……..8
Use Case Diagram.……..…….....9
System Requirements……..10
Requirement Specifications……12
Resumes……20
Screenshots……...26
Links……27

1. Team Capabilities Description

Name	CS Education	Skills	Experience
Harsh Jivani	Senior, Computer Science **Noteworthy courses:** Database, Data Mining, Fundamentals of Data Science, Algorithms, Web Programming	**Languages:** Python, HTML/CSS, SQL, JavaScript **Frameworks and Libraries:** Seaboard, numpy, matplotlib, bootstrap **Tools:** MYSQL, XAMPP, AWS - Lightsail	**Internship:** L3Harris Technologies – IT Intern UPS – Data Intern
Serena Johnson	Senior, Computer Science **Noteworthy Courses:** Databases, Algorithms	**Languages:** SQL, Solidity, HTML, JavaScript, CSS **Frameworks and Libraries:** Bootstrap	**Internship**: Federal Reserve Bank of Atlanta - Software Engineer Bank of America - Software Developer
Arsal Khan	Senior, Computer Science **Noteworthy Courses:** Database systems, Web programming, Mobile Application Development	**Languages:** Java, C, C#, SQL **Platforms:** SQL Server, MYSQL, ASP .NET Core	**Internship:** Kahnputers LLC. - Software development Intern
Abraham Mammen	Senior, Computer Science	**Languages:** Java,HTML,CSS, python	
Adam Nichols	Final semester, Masters Computer Science **Noteworthy Courses:** Parallel Algorithms, Web Programming, Data Security	**Languages:** Java, C/C++, Go, Python **Platforms:** Google Cloud Platform	**Academic:** Lab Instructor - Data Structures, Graduate Research Assistant - Evidence Based Cybersecurity **Internship:** Manhattan Associated - Cloud Security Engineering

2. Planning and Scheduling

1.1 Team Name

Our team name for this project is “LookSmart”.

1.2 Work Breakdown Structure

Assignee Name	Email	Task	Time Taken	Dependent On	Due
Harsh Jivani **(coordinator)**	hjivani1@student.gsu.edu	- Send email to instructor about new coordinator. - Create/manage a Slack account. - Create/manage a GitHub account. - Send everyone a note about writing their own introductions to the Slack channel. - Help with Task 5 and 6 - Complete video based on requirements on assignment 1	6.5 hrs	N/A	6/17/20
Serena Johnson	sjohnson253@student.gsu.edu	- Teamwork Basics - Complete video based on requirements on assignment 1	6 hrs	N/A	6/17/20
Arsal Khan	akhan45@student.gsu.edu	- User Requirements Task 5 - Complete video based on requirements on assignment 1	6 hrs	N/A	6/17/20
Abraham Mammen	amammen1@student.gsu.edu	- System Requirements Task 6 - Complete video based on requirements on assignment 1	6 hrs	N/a	6/17/20
Adam Nichols	anichols5@student.gsu.edu	- Compiling Report - Creating YouTube channel - Editing & uploading videos to channel - Complete video based on requirements on assignment 1	6 hrs	Completion of all other tasks	6/18/20

3. Teamwork Basics

3.1 Maintaining Group Efficiency and Group Satisfaction

The best way for everyone within our group within our group to accomplish each project task and meet every team member's satisfaction is by learning and identifying each other's strong and weak areas and assigning tasks based on knowledge, experience, and passion. Once this is established we can move on to begin to set common ground rules that will help each one of us utilize communication at our greatest extent. When each member holds the position as the facilitator, they will make sure each team member completes their assigned tasks on time and is correctly done and handles any conflicts.

3.2 Work Norms, Facilitator Norms, Communication Norms

3.2.1 Work Norms

The distribution of the work will be decided by the group as a whole. If someone feels that they are unable to fulfill the set task, then the new task will be assigned to someone based on vote or split between other team members. Outside of having the deadline from the professor, the team will set their own deadlines to ensure all work is correct and not rushed. If a person takes on a task, but fails to complete the task, that member will receive either partial or no credit for that assignment. If the same team member continues to not finish tasks, then whoever is the facilitator will discuss the issue with the instructor and appropriate penalties will be issued. As a team we understand each one of us has different responsibilities, therefore no penalty will happen if work is done by deadline the team sets, but work will always be revised and edited by the team as a whole.

3.2.2 Facilitator Norms

Since the project coordinator rotates between all team members for each project, we have decided to allow the project coordinator to also hold responsibility as facilitator. Therefore each team member will hold both positions of the facilitator and project coordinator at least once. While in these positions the assigned facilitator/project coordinator will ensure that tasks are completed in a timely manner and to settle any conflicts or disputes amongst the team.

3.2.3 Communication Norms

Within our group we have decided to communicate through Slack and email, although other forms of other communication are allowed, such as phone or text, we will primarily stick to Slack. If we need to have a video conference to further discuss information in a face-to-face environment, then we will be using Zoom. Communication that is used outside of Slack or email will be predetermined by appointment that is approved by any team member affected.

3.3 Handling Difficult Behavior Within the Group

3.3.1 A member does stops responding to all team communication

If a team member actively stops communicating with the group and the project coordinator can not get in contact with them, then the project coordinator will discuss the issue with the instructor.

3.3.2 A member of the team is argumentative

If a team member tends to be argumentative or critical to all ideas made by the other team members, then the team will discuss all viewpoints and a team vote will be made for the final decision. If the team comes to a tie, then the project coordinator will have the deciding vote.

3.3.3 A member of the team is too quiet

If a member is too quiet or not actively participating in the group discussions then the other members will try to ask the member more questions about the discussion topics and allow the member to give their current opinion.

3.4 Understanding All Team Members Ideas and Having Common Ground

If any conflict arises where the team can not come to a common ground on the understatement of a decision, we will cast a vote and the majority vote will win.

3.5 How to Ensure No Team Member is Peer Pressured into Making a Decision by Another Team Member

To make sure that everyone has their own voice and opinion in all tasks and how to proceed in doing a particular assignment, the facilitator will individually talk to each group member to make sure they are hundred percent sure on their decision.

3.6 Handling Team Members' Priorities

As a team our main priority is for everyone to get an 'A' on the project and to absorb all knowledge from the course to help be better engineers in the real world. If anytime a member feels as another task should be prioritized over something else we will talk about it as a team and if needed discuss individually with the project coordinator.

4. Project Requirements

4.1 Problem Statement

Difficulty: Medium

Requirements elicitation methods: Our requirements were elicited through interviews with a student/tutor.

Problem Description: Quite often, students enroll in classes that throw them into a completely new world of academia, and these students may be frightened at first. With the start of classes that define your future and career, such as major classes, students may need extra help from tutors, but many questions arise. The students may ask questions like "What topics are covered in this course? What topics are the most challenging? How should I study for these specific sections? ", and so on and so forth. Our system will work to ease the students' tensions, by suggesting help based on the courses being taken by each individual student. Students will sign into our system and their profile will be automatically edited and filled out from the student profile that is already existent in the GSU system, along with their course schedule. Topics most challenging for each course the student is signed up for will be listed out, as well as tutors that are tutoring for the respective courses. Students will be able to book tutors based on walk-in availability, or schedule an appointment online for a specific day. At the end of each tutoring session, a small survey will register feedback, such as what topic the student got help for, and use that feedback to have a system that presents the most challenging topics for the courses for the following semester. With the resources GSU provides, such as student information and courses, as well as the technological power that comes with an established university, the system will function as intended.

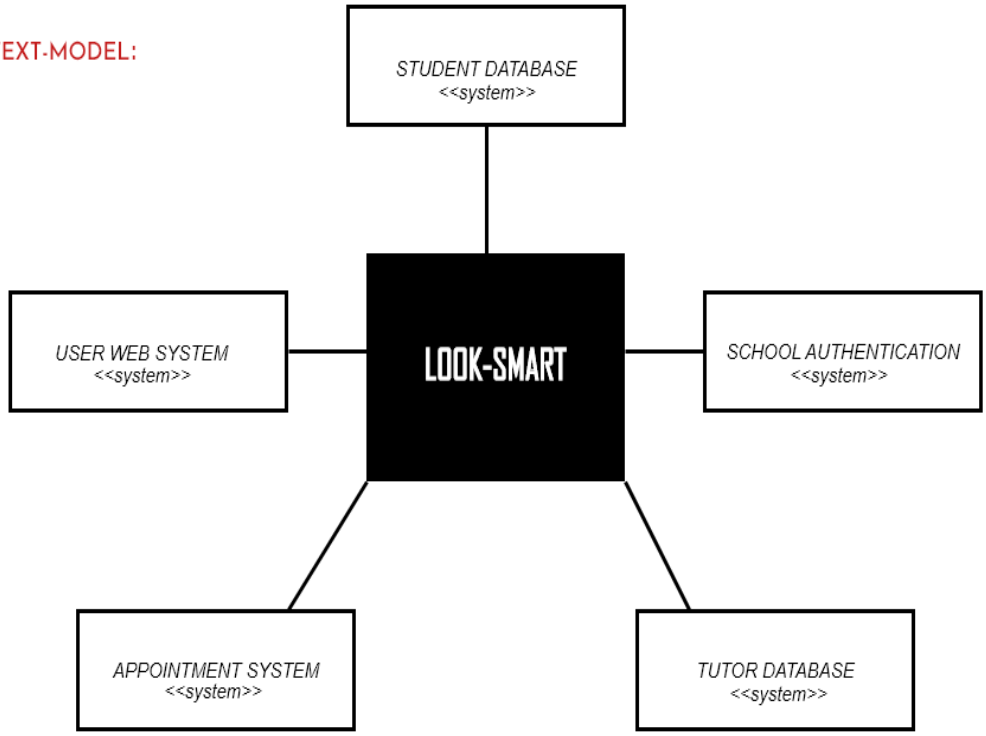
4.2 User requirements: Student

1. Student requires functionality -> “I want to be able to cancel an appointment with a tutor”
    a. User requirement: Cancel button for an appointment
    b. System functionality: Option to cancel an appointment appears as a button under each booked appointment or upcoming appointment.
2. Student requires functionality->”I want to be able to notify the instructor that I’m running late”
    a. User requirement: Notification system that lets the instructor know that the student is running late.
    b. System functionality:An email is sent to the instructor when the student notifies the system that they are running late.
3. Student requires functionality->”I want to be able to book an instructor at a scheduled time, or immediately see any available instructor”
    a. User requirement:Option to choose an instructor at any given time
    b. System functionality:Two buttons would be shown when booking an appointment,either to book an instructor at a certain date/time, or immediately.

4.3 System Requirements

High Level Architecture: The main goal of our application is to give students a better idea of the help they can receive based on the course they are enrolled in along with the info the app provides about available tutors at the current time/day. Our application will use a student database where we will retrieve the information about the student’s record. The school authentication will be used to make sure that student is GSU student only. The tutor database will be used to store information about the staff such as clock in/out time, schedule, availability etc. The appointment system will allow students to schedule upcoming sessions with currently available tutors or scheduled tutors. Users use the web system to access the Look-smart web app.

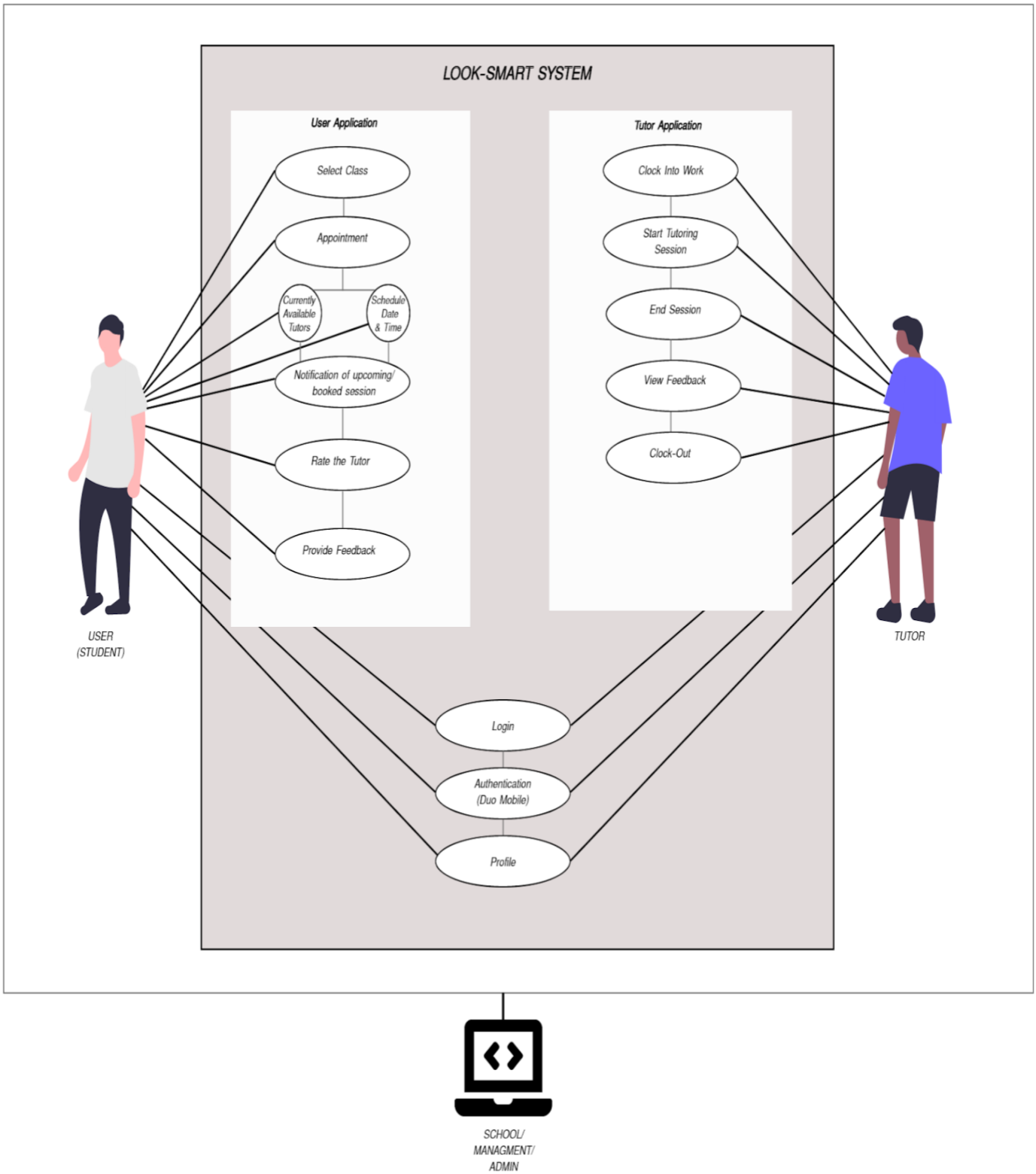
CONTEXT-MODEL:



Context Model :

1. Student database
2. School authentication
3. Tutor Database
4. Appointment System
5. <<User>> Web system

Use-Case Diagram



System Requirements:

1. **Functional:**
    a. Our system will provide information about available tutors depending on the student's schedule.
    b. The system gives the student the ability to login to LookSmart using their GSU authentication system.
        i. If the user attempts to log in with the wrong account details such as email and/or password, the system will notify the user that the input is invalid.
        ii. If the user inputs the right email address and password, they will be prompted to authenticate using the duo mobile system.
        iii. The user has to then login to their phone and grant permission using the duo mobile app.
        iv. Once login is complete the user can pick their tutoring session based on the classes they are currently enrolled in.
    c. The user has the ability to pick currently available tutors or they can schedule an appointment.
        i) Scheduling an appointment:
            - The student first picks what class they need help with.
            - Once the student picks the class, they have to decide whether they want "currently available tutors" or "schedule an appointment"
            - After picking "schedule an appointment" the student has to then pick the Date/Time.
            - Then LookSmart should show the available tutors at the selected date and time.
        ii) Currently available tutors:
            - First, the student picks the class they need help with.
            - Once the student picks the class, they have to decide whether they want "currently available tutors" or "schedule an appointment"
            - After picking "Currently available tutors", LookSmart will show the tutors available at the moment for that class.
    d. The user receives a notification of their scheduled/upcoming session
        - Once the user books their appointment type, the tutor and student instantly receive a notification of their upcoming session on their panther mail/outlook calendar.
    e. Start/ end session (tutor)
        - When the tutor starts the session, then that tutor will get 30 minutes by default without any extra extension given.
        - Once the time limit is up, the tutor has to end the session by clicking "end session".
    f. After the tutoring session, the student can rate the tutor and give feedback.
        - After the tutor ends the session, the student receives a query to input their feedback and rating of the session.

- Based on the feedback that students give,data gets collected into the student database to improve future tutoring sessions.

g. Clock-in/Clock-out
    - When the tutor logs into the main menu, they have the option to view their schedule, start/end session, and clock-in/clock-out into work.

h. Profile Management
    - Both student and tutor information is auto-populated from GSU's student and staff databases.

2. Non-Functional:

a. Constraints to limit the number of students and tutors per session
b. Tutors are able to teach up to 1 hour per session.
c. Anonymous feedback
d. The authentication system shows students existing schedules.
e. Usability: Students and tutors shall be able to cancel their order/request at any time.
f. Legal: The service shall require a term of agreement upon requesting for a tutor.

Requirement Specifications:

(1)

Requirement	**Login**
Actors involved	Student, Tutor
Basic course of events	Username and passwords are entered, validated, and access is granted. If validation fails, a 2 second pause occurs (for brute force protection), and the user is prompted to try again. Five attempts are granted before lock out occurs.
Alternative paths	None
Exception paths	By design, none. Hopefully none inadvertently crop up. Fingers crossed.
Pre-conditions	A user profile must already exist within the GSU database.
Post-conditions	User will be authenticated and have access to the services provided within the LookSmart web application

(2)

Requirement	**Authentication (Duo Mobile)**
Actors involved	Student, Tutor, Management/School
Basic course of events	User has already entered login info, an API call is made to the DUO system sending the user information (encrypted and following proper OAuth2 protocols) along with the call. DUO's system handles the user interaction and authentication procedures at this point and provides the LookSmart system with a validation true/false result

Alternative paths	None
Exception paths	Let's really hope not.
Pre-conditions	A user profile must already exist within the GSU database, and the user must have set up their DUO Mobile account.
Post-conditions	A verdict regarding authentication is rendered by DUO Mobile. If authentication was successful, access is granted to the user. Otherwise, the user is asked to attempt their login again.

(3)

Requirement	**Profile**
Actors involved	Student, Tutor
Basic course of events	Having gotten a authentication=true response from DUO Mobile, the user is served their profile. To see the feedback and rating from the students, the tutor will need to visit their profile.
Alternative paths	If authentication has already occurred, any page/view of the web application will have a link providing a path to the user's profile
Exception paths	If an unanticipated event failure occurs, that information would be listed in a small banner atop the user's profile, where they will be returned to.
Pre-conditions	DUO Mobile authentication is validated, and all pre-conditions on which that is reliant.
Post-conditions	The user will have access to their profile, which is effectively their portal to all the functionality available to them on the LookSmart web application.

(4)

Requirement	**Select Class event**
Actors involved	Student
Basic course of events	Once the student is done with the login process, the main menu will be auto-populated with the classes the student is currently enrolled in. The user then can click on which class they need a tutoring session on.
Alternative paths	N/a
Exception paths	If the user doesn't login with the correct credentials, they won't be able to access the select class event
Pre-conditions	User needs to complete the login process. Login is required in order to receive the user's information from the student database.
Post-conditions	Once the user picks their class, they will be sent to select an appointment type event.

(5)

Requirement	**Appointment event**
Actors involved	Student, Tutor

Basic course of events	1.Once the student picks the class, they must select the appointment type. 2.The user is provided with two buttons: “Currently Available Tutors” & “Schedule Date & Time”. 3.If the user picks “currently available tutors”, the user can see tutors that are available at the moment. 4.If the user picks “Schedule Date & Time”, then the user can see the availability of tutors for the selected date & time. 5. Students have the option to cancel the appointment after booking the session.After which the tutor receives an notification of the canceled appointment.
Alternative paths	N/A
Exception paths	If the student does not find a tutor in the selected date/time, they will receive a pop-up that says “no tutors available for the selected slot ”
Pre-conditions	The student must select the class in order to show available tutors from the tutor database
Post-conditions	If the user goes through the process correctly, they should receive a notification on their panther mail about their upcoming session. After which the student goes to the tutoring center.

(6)

Requirement	**Notification of upcoming session**
Actors involved	Student
Basic course of events	After the student has booked an appointment , they will receive an email on their panthermail. The mail contains information about their upcoming session and the event will be added to their outlook calendar
Alternative paths	N/a

Exception paths	If the user cant easily navigate and successfully book a tutoring session they will not receive the email
Pre-conditions	The user needs to book an appointment in order to receive the confirmation email
Post-conditions	The student now has the confirmation email with the date & time on it. The user then visits the tutoring center for their session.

(7)

Requirement	**Rate the tutor and provide feedback /receipt of session**
Actors involved	Student
Basic course of events	After the tutoring session is over and the tutor hits “end session”, the student will receive a survey asking for rating and feedback on the session. Which gets stored in the tutor database
Alternative paths	N/a
Exception paths	If the tutor forgets to end the session the student will not receive a survey.
Pre-conditions	The tutor has to end the session in order for the student to provide feedback and rating.
Post-conditions	Once the user has finished the survey , the rating/ feedback provided by the student will be updated on the tutors profile. The data will also be updated in the tutor database.

(8)

Requirement	**Clock into Work**

Actors involved	Tutor and Management/School
Basic course of events	1. The tutor will login to the app 2. They will click on clock-in 3. After this, their time starts recording to the tutor database
Alternative paths	If in case something happens at system level, the management/school can manually enter in the Tutor's data
Exception paths	If the tutor cannot clock-in, they will not be able to tutor the student and they won't have their data logged onto the database.
Pre-conditions	Clock in will require in-order to start the tutor session with the student
Post-conditions	After clock-in occurs, tutor will be redirected to main page where they can select the schedule option or clock-out option

(9)

Requirement	**Start tutoring session**
Actors involved	Tutor, Management/Admin
Basic course of events	1. After logging-in to the app, the tutor will have the option to accept or decline the incoming tutoring session request or start the scheduled session. 2. Once the button has clicked the session starts.
Alternative paths	N/A

Exception paths	If the tutor is not able to start the session, then they will not be able to start tutoring. If the tutor is not able to start the session, then admin will have the option to manually enter the start session time.
Pre-conditions	User will login first and after the session starts, the tutor has the ability to end the session.
Post-conditions	Once the session ends, the student has option to rate the tutor, and tutor will be sent back to the scheduled screen

(10)

Requirement	**End Session**
Actors involved	Tutor, Management/School
Basic course of events	1. Once the tutor has begun the session, the tutor will have the ability to end the session. 2. After clicking end session, then tutor will be sent to the main screen
Alternative paths	N/A
Exception paths	If the tutor is not able to end the session, then admin will have the option to manually enter the end session time.
Pre-conditions	The session will start once clicked and then the tutor has clicked on the “end session” button.
Post-conditions	After the end session, the tutor will be sent to the main screen

(11)

Requirement	**View Feedback**
Actors involved	Tutor and Management/School
Basic course of events	1. Once the session has ended and the student has written the feedback, the tutor can see the feedback on the tutor's profile.
Alternative paths	Management/school will have access to read manually from the database.
Exception paths	Since it's not an optional survey it is not mandatory to provide any feedback or rating.
Pre-conditions	In order to get the feedback from students, there has to be a session that has occurred. Then, the student will be able to provide the feedback.
Post-conditions	The tutor will see the feedback as anonymous. However, the management/school will see the actual name of the person who wrote the feedback.

(12)

Requirement	**Clock-out of work**
Actors involved	Tutor and Management/School
Basic course of events	1. When the tutor is already logged-in, they can go to main screen and click "clock-out" 2. After this, their time will be recorded to the tutor database
Alternative paths	If in case something happens at system level, the management/school can manually enter in the Tutor's data

Exception paths	If they forget to clock-out, the tutor and management/school will still be required to clock-out when ending their work.
Pre-conditions	Tutors must be logged-in in order for them to clock-out.
Post-conditions	Once clocked-out, tutor will be taken to login page

6. Appendix

6.1 Resumes of Group Members

6.1.1 Harsh Jivani:

Harsh R. Jivani

Cumming, GA | (404) 934-0001 | harsh.jivani7@gmail.com | US Citizen (Security Clearance – Obtainable)
Linkedin.com/in/harshjivani | harshjivani.com

TECHNICAL SKILLS

Programming Languages: HTML/CSS, SQL, Java, Python, PHP, x86 Assembly
Operating Systems: Windows OS, Linux, Mac OS
Software: MS Office, Microsoft Deployment Tool, MySQL, Tableau, IBM Cognos, Oracle DB, MariaDB, GitHub, Amazon Web Services (S3, Route 53, CloudFront, Lightsail), MS SQL Server, Power BI, Microsoft Azure
Professional: Self-motivated, creative and analytical thinker; detail-oriented; team-oriented; problem-solver

WORK EXPERIENCE

UPS Supply Chain Solutions — Alpharetta, Georgia
Information Technology Data Intern — May 2020 - Present
- Reviewed, evaluated, and created POC (Proof of Concepts) project to verify that concepts and theories for Power BI Report Builder.
- Used data warehousing technique to help build Financial reports and dashboard using Power BI Report Builder and present to management teams. Exposure to MS SQL Server, SQL, and Microsoft Azure products.

L3Harris Technologies — Alpharetta, Georgia
Information Technology Intern — May 2019 - August 2019
- Developed and performed tests on various enterprises. Provided dashboard solutions by using IBM Cognos Report Studio and assisted all end users.
- Prepared all reports for management with help of IBM Cognos Report Studio.
- Programmed python script for Electrical/Mechanical Engineers to identify and track IBM Cognos/Costpoint ERP path for 50k+ packages.
- Provided technical assistance and support for incoming queries and issues related to computer systems, software, and hardware.
- Installed, modified, and repaired computer hardware and software.

Office Depot — Johns Creek, Georgia
Sales & Technical Service Consultant — May 2015 - December 2017
- Recognized as Top 10 in Georgia for technology sales and increased the store's monthly technology sales by more than 20%.
- Promoted from Sales Consultant to Sales & Technical Service Consultant within first 6 months of hiring.
- Provided exceptional customer service, with a focus on creating a customer centric environment.
- Diagnosed and offered technical recommendations for customers with computer, printer, and other equipment problems.
- Performed front end responsibilities such as cashier, returns, and reserve online pick up with no impact to the customer experience.

PERSONAL/ACADEMIC PROJECTS

SimpliEZFiles | *Technical Implementation Consultant* — May 2019 – Present

Personal Healthcare Costs Analytics | *Data Science* — March 2020 – May 2020

File Manager - Android Application | *Operating Systems* — March 2020 – May 2020

Atlanta Zoo Web Application | *Database* Systems — August 2018 – December 2018

CERTIFICATIONS

Computer Networking, Google
Technical Support Fundamentals, Google

HONORS & INVOLVEMENT

Georgia State University Dean's List; Presidential Scholar; Chi Pi Chapter Honor Society (PTK)
Georgia State University Vice President of Engineering Club (Fall 2015 - Fall 2017)

EDUCATION

Georgia State University — Atlanta, GA
- *Bachelor of Science in Computer Science* — Expected Graduation Date: Aug 2020
- *Associate of Science in Computer Engineering* (Honors) — Graduated: December 2017

6.1.2 Serena Johnson:

Serena Johnson

Email: renajohn.sj@gmail.com | LinkedIn: linkedin.com/in/serenajohnson21

Education: Georgia State University, Atlanta, Georgia **Graduation Date: May 2021**
B.S, Computer Science

Skills: mySQL, Solidity, Python, CSS, HTML, JavaScript

RELEVANT WORK EXPERIENCE:

Federal Reserve Bank of Atlanta, *Software Engineer Intern* *May 2019 - Present*
- Designed and implemented a blockchain environment using Microsoft Azure to help track assets
- Coded a blockchain smart contract through Solidity and JSON
- Converted a Microsoft Excel sheet to an interactive webpage for users to make international transactions

Digital Learner to Leader, *Team Lead* *August 2018 - April 2019*
- Built both iOS and web applications, while leading a team of 5
- Taught team members how to use HTML, CSS, and JavaScript

PROJECTS:

ATL Connect, *Project Manager, Front-end & Backend Developer* *September 2018 - Present*
- Created a web application that helped new residents navigate through the city
- Designed the user interface for the app using Sketch and inVision
- Created a prototype to present to users using Figma

LEADERSHIP:

PantherHackers, *Chief Executive Officer* *January 2020 -Present*
- Managed and help develop all of the organization's workshops
- Communicator between organization's officer board and advisors
- Made strategic decisions on organization's vision and mission for the future

PantherHackers, *Chief Marketing Officer* *May 2019 - December 2019*
- Interview students at Georgia State University about their technology experiences for web series
- Market upcoming events through social media and flyers

Girls++, *Outreach Chair* *May 2018 – May 2020*
- Designed flyers and update club's logo using Sketch
- Update all social media accounts with upcoming events and relevant information weekly
- Connect with companies and tech professionals to bring them to organization to speak

Our Journey Through Code, *Social Media Manager* *April 2019 - Present*
- Create and design flyers to promote upcoming biweekly web series
- Interact with social media users to help gain popularity and connections in the tech industries
- Understanding users to help share valuable content about new information happening in tech

HACKATHONS:
- HACKGSU *March 2018*
  - Built an iOS application called NOTA
  - Designed the user interface using Sketch
- HACKGSU *October 2018*
  - Designed eCommerce website using React

6.1.3 Arsal Khan:

ARSAL KHAN

akhan45@student.gsu.edu
(404) 769-4446
745 Kimbrooke Trail,
Lawrenceville, GA 30044

PROFESSIONAL SUMMARY

Excellent reputation for resolving problems, improving customer satisfaction, and driving overall operational improvements. Consistently saved costs while increasing profits.
Well-seasoned Computer Software developer, with a focus on back-end development, including various technologies such as Azure, Visual Studio Online. Excellent at any form of Object-Oriented Programming, including, but not limited to, mobile application development and web development

SKILLS

- Computer science
- Experience conducting computerized testing
- Excellent PC computer skills
- Computer software repair
- Internal management experience
- Data science
- Advanced computer skills
- Schedule coordination
- Event execution
- Customer Service
- Staff development
- Process and procedure development
- Customer relations
- Maintenance

EDUCATION

Georgia State University
Atlanta, GA

Bachelor of Science: Computer Science

CERTIFICATIONS

MTA(Microsoft Technology Associate) certification

Kahnputers LLC. - Computer Science Intern
Lawrenceville, GA • 04/2019 - Current

- Learned about new technologies, how they work to make software development easier, and the application of that technology to software to further increase workflow capacity
- Worked with many new, prominent technologies in the industry, such as Google's Flutter, Visual C#, Android development and many other technologies.
- Worked on creation, implementation and construction of SQL databases.

ACCOMPLISHMENTS

- Bachelor of Science in Computer Science as of May 2020
- Microsoft-certified as of 2018, Microsoft Technology Associate, proving basic, core fundamental skills in computer software development.

6.1.4 Abraham Mammen:

ABRAHAM MAMMEN
Email: abemammen123@gmail.com
Phone: 770-875-9679
Address: 2945 Rosebud Road, Apt.123, Loganville, Georgia 30052
LinkedIn: *https://www.linkedin.com/in/abraham-mammen-487b2915b/*

SUMMARY:

I'm a college student who is looking for a internship/job in the field of computer science/UI/UX/marketing. I hope to improve and develop my knowledge, skills, and experience in this field by working here. I am adept at working as part of a creative team to accomplish goals, well-versed in current social media platforms and trends, hard-working, enthusiastic, and motivated with strong organizational and communication skills

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SKILLS:

- Java
- Adobe XD
- Prototyping
- Linux
- Raspberry-PI
- HTML
- CSS
- Microsoft Office (Well versed with Excel, Word, Power point and Access)
- Teamwork
- Adaptability (I consider myself to be a very quick learner, and tend to make the best out of the worst soenarios)
- Creativity
- Time management skills
- Interactive designs
- Visual communication
- Prototyping
- Sketching

EXPERIENCE:

Part-time office assistant / Grace Imports - Tucker, GA
01/2016 - 04/2017

As an office assistant, my job included attending to customer orders by preparing order deliveries and pick-ups. In order for preparing the invoices I frequently had to use the companies POS system and eventually became well versed in it. The job also included in generating weekly purchase reports using excel. This job has also improved my skills in customer interaction, and handling tasks with short deadlines.

Logistics and warehouse / General Mills - (Resource-MFG), Covington, GA
06/2019 - 08/2019

Working here I developed a strong skill of multitasking under intense time constraints. Making sure the supervisors, managers and vendors achieve their day-to-day operational requirements helped me improve my team working skills.

EDUCATION:

- Georgia State University - Atlanta, GA — 2020
  Bachelor of Science: Computer Science
  Currently enrolled in the CS Program
  GPA: 3.6

- Georgia Gwinnett College - Lawrenceville, GA — 2018
  Bachelor of Science: Computer Science
  Computer Science major
  2 years of CS related courses
  Transferred to Georgia state university's CS program in May 2018.

PROJECTS:

- **UGA Hacks4**
  "Eplogue" – With a team of 4, we developed a prototype modular device for JUUL, designed to help put an end to nicotine addiction. We simultaneously developed the "Eplogue app" that provides the user with daily status, progress and alerts fetched from the modular device which helps the user limit the use of JUUL. To develop the device, I learned how to use android-studio, Arduino and java.
  Devpost : https://devpost.com/software/epilogue-m51hs2

RELEVENT COURSES:

- **CSC 1088- Intro to Computing (GGC)**
- **CSC 1301- PRINCIPLES OF COMPUTER SCI I**
- **CSC 1302- PRINCIPLES OF COMPUTER SCI II**
- **CIS 2010- Introduction to Info Systems (GGC)**
- **ITEC2130 - Web Tech (GGC)**
- **CSC 2510-THEOR FOUNDATIONS OF COMP SCI**
- **CSC 2720- DATA STRUCTURES**
- **CSC 3210- COMPUTER ORG & PROGRAMMING**
- **CSC 3320- SYSTEM-LEVEL PROGRAMMING**
- **CSC 4330-PROGRAMMING LANGUAGE CONCEPTS**
- **CSC 4520-DESIGN & ANALYSIS: ALGORITHMS**
- **CSC 4720-HUMAN-COMPUTER INTERACTION**
- **CSC 4980-INTRO TO DEEP LEARNING**

6.1.5 Adam Nichols:

ADAM **NICHOLS**

(678) 522-1391
ANichols5@student.gsu.edu
https://ebcs.gsu.edu/profile/adam-nichols/

EXPERIENCE

JUNE 2019 – PRESENT
EVIDENCE BASED CYBERSECURITY RESEARCH GROUP, GEORGIA STATE UNIVERSITY
Created a non-malicious worm and the software with which to track its propagation
Constructed and configured a honeypot server and the intrusion detection system with which to observe it

JANUARY 2019 – MAY 2019
GRADUATE TEACHING ASSISTANT, GEORGIA STATE UNIVERSITY
Was responsible for lab assignment creation, lab instruction, and the grading of the student's work
Held office hours twice a week for students who wanted additional help with assignments and concepts

JANUARY 2015 – DECEMBER 2018
BOOKKEEPER, ATLANTA BUSINESS CIRCULATORS
Maintained detailed financials and payroll for a company grossing $4 million annually
Trained the position replacement over the course of two months

EDUCATION

DECEMBER 2020 (EXPECTED)
MS IN COMPUTER SCIENCE, GEORGIA STATE UNIVERSITY
Current GPA: 4.2

DECEMBER 2018
POST BACCALAUREATE STUDIES IN COMPUTER SCIENCE, GEORGIA STATE UNIVERSITY
Post Baccalaureate GPA: 4.1

DECEMBER 2015
BA IN PHILOSOPHY, GEORGIA STATE UNIVERSITY
Major GPA: 3.5

LANGUAGES

- Java, Python, C, C++, BASH Scripting

TECHNOLOGIES

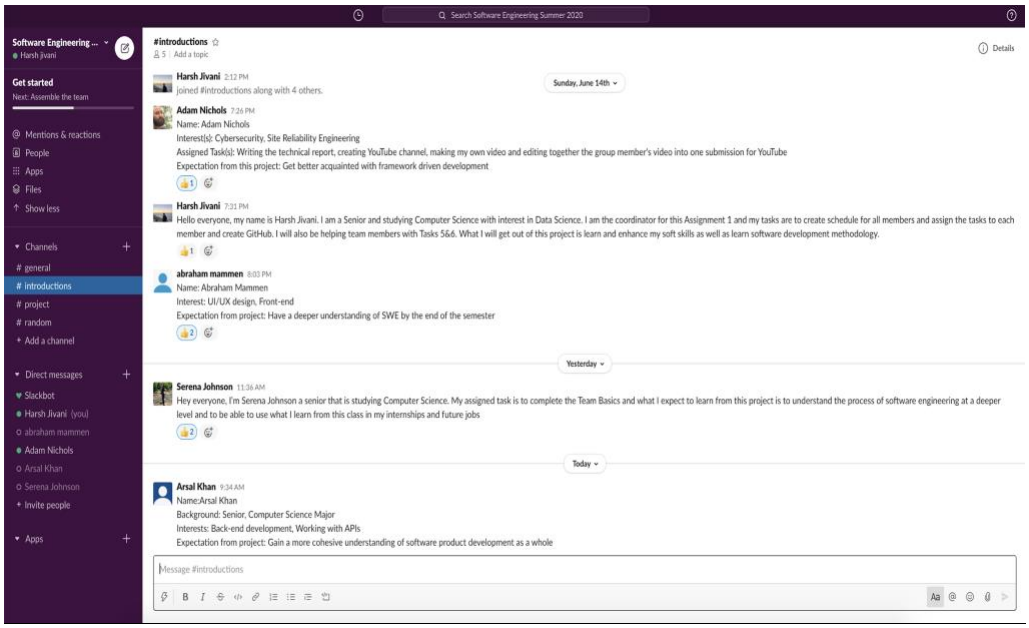
- Windows, Mac, Linux (Ubuntu, CentOS)
- PyCharm, Eclipse, Nano, VS Code, Wireshark

RELEVANT COURSEWORK

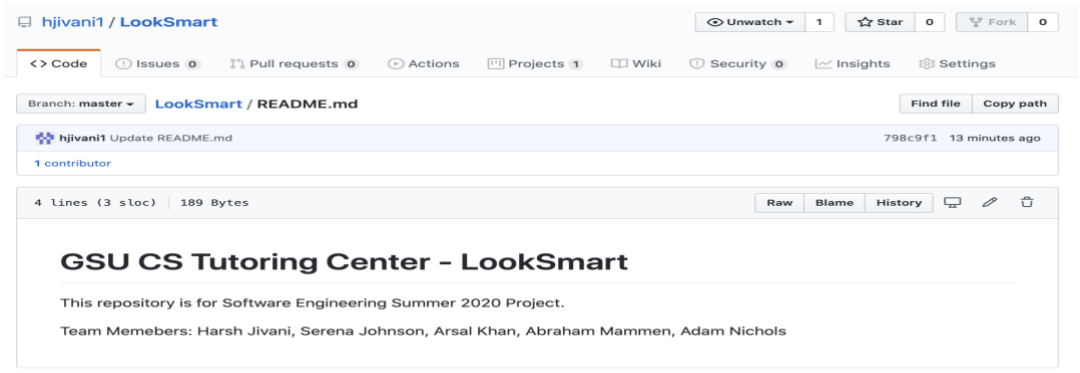
- Operating Systems, Data Structures, Java 1 & 2, Algorithms, Computer Organization, Automata, System Level Programming, Cybersecurity, Sensor Networks and IOT, Wireless Optical Networks, Data Security

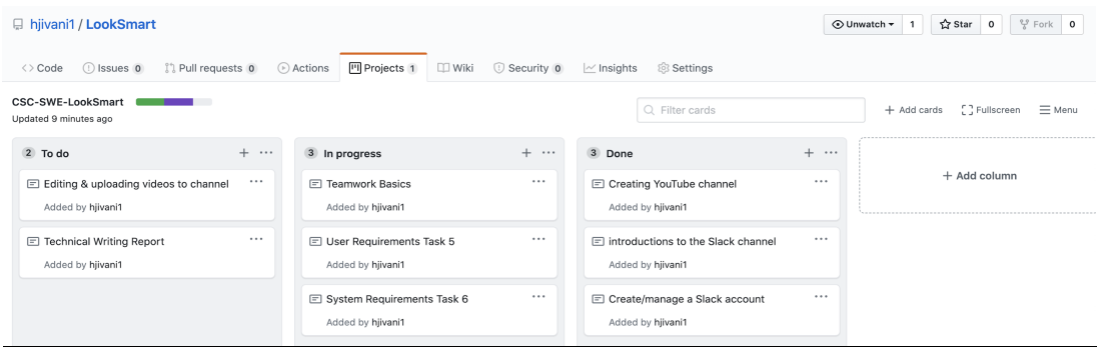
6.2 Screenshots

6.2.1 Slack Introductions:



6.2.2 GitHub:





6.3 Links

6.3.1 GitHub:

https://github.com/hjivani1/LookSmart

6.3.2 Slack:

https://join.slack.com/t/softwareengin-bw85013/shared_invite/zt-f16yu485-QYscI0vxWKm2fhZT_ramTQ

6.3.3 YouTube (Channel):

https://www.youtube.com/channel/UChKMvERYZ7spC0uYzXwdHVA

6.3.4 YouTube (Video):

https://www.youtube.com/watch?v=nZ-QN-SnA7M&feature=youtu.be