Software Engineering Project Contract

Team Name

Punch-In

Project Description

Punch-In is a website built using HTML, CSS, JS, PHP, and MySQL that allows employees of a company to clock in and clock out, helping them track the number of hours worked each weekday, as well as their earnings before and after taxes, all within a user-friendly interface and dashboard.

Team Introduction

- **Ahmed Makkaoui** (Main Contact)

My name is Ahmed Makkaoui. I began my technology career at 16 years old, teaching myself to code and taking numerous courses, including the CS50 Introduction to Computer Science course. I started building websites, eventually turning this passion into a business called AM&Son Software. I then interned as a Technical Product Owner (TPO) at Fortune 500 company Assurant. Currently, with one year left before I graduate in May 2025, I work full-time at Assurant as a Business Systems Analyst, where I apply my skills and experience to drive business solutions, support system enhancements, and contribute significantly to the company's growth.

- **Albert Sun**

Albert Sun is currently a Senior at Georgia State University and is majoring in Computer Science and minoring in Philosophy. He has an interest in IoT and its application in the field. Albert has experience working with ESP32 microcontrollers and developing heart rate and positional monitoring software and live monitoring using a time series database using C and Python. Albert also has experience developing a desktop application using JavaScript, NodeJS, ReactJS, ElectronJS, and ExpressJS in an Agile environment. This utilized HTTP communication with an external application and storing and managing a dynamic local library of files. Other relevant experience includes pandas processing .csv and .xslx files and managing multiple Linux machines.
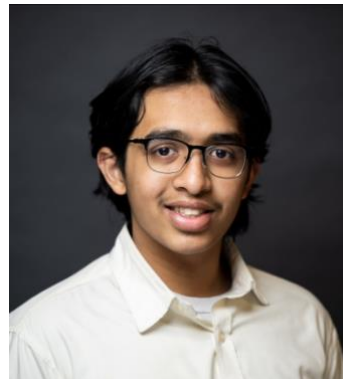
- **Liberty Ikpeogu**

A Liberty Ikpeogu is an enthusiastic Computer Science major strategically pivoting toward a career in cybersecurity. With a solid foundation in computer science principles, including programming, algorithms, and networking, Liberty has augmented his expertise through rigorous training and certifications from cybersecurity bootcamp programs. He demonstrates a proactive approach to professional development, consistently staying abreast of emerging trends and technologies in cybersecurity. Equipped with hands-on experience in implementing security measures, conducting penetration testing, and responding to cybersecurity incidents, Liberty is positioned as an asset in safeguarding sensitive information, fortifying digital infrastructure, and mitigating cyber threats. His proficiency in HTML and CSS further enhances his technical versatility. Committed to making impactful contributions, Liberty is dedicated to enhancing cybersecurity posture and resilience in today's dynamic and evolving digital landscape.

- **Vy Dinh**

I am a senior at Georgia State University that will graduate in May 2025. I have programming experience in Python, Java, and C. I have taken intro to robotics and computer networks as electives during my stay at GSU. I have aided in creating projects such as computer virus simulation and a network packet analyzer across my coursework. I have used pandas, numpy, and pcapj across these projects. I have also dabbled in electronics when I was in robotics, working with sensors(lidar and IMU) and sometimes outside of school in my spare time. I am currently thinking of getting into the field of machine learning and have been taking machine learning at GSU this semester.

- **Abdurrahman Habeeb**

Abdurrahman Habeeb is a Senior at Georgia State University, majoring in Computer Science with a focus on cloud computing and digital transformation. He has interned at Manhattan Associates, once as a Cloud Services Consultant and once as a WMS Implementation Consultant giving him valuable experience in cloud development and supply chain solutions. He has also interned at Maximus, where he contributed to the Cloud Platform team as a Cloud/Software Engineer working with AWS, Automation tools, and Python.. Additionally, he interned at Crescent Technology, where he is currently involved part-time, in driving, consulting, and implementing digital transformation solutions utilizing cloud and machine learning. He also holds five

cloud certifications, and is the co-founder of the Rising Tech Professional Association club at GSU.

Team Strengths

Ahmed Makkaoui – Project Management, UX design, HTML, CSS, JS, PHP, MYSQL
Albert Sun – JavaScript, C, Python, Flexibility
Liberty Ikpeogu – HTML , CSS, Python, Penetration testing, Incidence Response
Vy Dinh – Python, Java, C, Artistic Creativity
Abdurrahman Habeeb – QA Testing, Cloud Computing, Python, Architecture Design

Our team's strengths are strong communication, teamwork, and problem-solving skills. We work well together, support each other, and can quickly find solutions when challenges come up. Everyone brings their unique skills, which helps us be more creative and efficient.

First Virtual Meeting

- **Methods of communication**
  - o We will mainly be using iMessage and Google meets if virtual meetings are required

- **Communication response time**
  - o Within 1-2 business days

- **Meeting attendance**
  - o Once a week, Monday 7:15 -8:15pm Est, virtually

- **Running Meetings**
  - o All meetings will be conducted virtually, we plan to meet every Tuesday and Thursday after class if more meetings are required.

  - o Abdurrahman Habeeb, will be taking minutes of meeting, providing a short summary regarding the context of the meeting.

- **Meeting Preparation**
  - o During each meeting each member will have set number of tasks to complete, therefore going into each meeting, each member will be given time to discuss and showcase his work in addition to the tasks he expects to complete by the next time we meet.

- **Version Control**
  - o We plan to use GitHub; therefore, we will be documenting progress on the log and push to main with everybody relevant to the commit.

- **Division of work**
  - o Work will be divided based on each member experience. Here is how we have divided our roles, roles may change to expedite work if needed.

    - ▪ Ahmed – Project management, UX design, Frontend
    - ▪ Albert Sun – Database, Routing, Frontend Integration
    - ▪ Liberty Ikpeogu – Frontend
    - ▪ Vy Dinh – Backend, Frontend? Creative Design
    - ▪ Abdurrahman Habeeb – Cloud, Deployment, QA Testing, Backend

- What will you do when a member is absent from a meeting?

  - o If a team member is absent and can't submit their work, the rest of the team will step in to complete their part to make sure the project stays on track and meets the deadline.

- How will you plan to continue dividing the work?

- o We'll divide the work based on each team member's availability, making sure everyone has an equal share of the tasks.

- Will you send them the next actions needed to progress?

- o Yes, once we've completed the tasks for the absent member, we'll let them know in the next meeting so they can continue with their work as usual.

- **You should also determine what should happen when you have members that have not contributed.**

- o If a member hasn't contributed as expected without a valid reason, we'll first talk to them to understand the situation. If it continues, we'll inform the instructor and redistribute the work to make sure the project stays on track.

GitHub Repo

https://github.com/walkiisun/PunchIn