

CPS353 Software Engineering Proposal

Group Details

Group Number	01
Group Members	Asfand Alavi, Jorge Cruz, Jennie Q. Colabella, Antonio Finelli, Nick Finelli, Christopher Moschetti, Taimur Tawil
Date	2/4/22

Proposal Details

	Item	Description
1.	Project	POS Project for client located in Modena, New York
1.1	Proposed Project Title	Hudson Valley Audio Visual Rental System
1.2	Summary	We will be creating a cloud based point of sale system for Hudson Valley Audio Visual, a small company that has been serving the Capital Region, Hudson Valley, and Westchester County since 1996. The purpose of the system is to enable the client to streamline their rental workflow. The finished product will allow company employees to manage inventory, create rental packages for clients, and create and manage service requests.
2.	Target Audience	The owners and staff of an equipment rental company

2.2	Age Group	18+
2.3	Rating	G
3.	Features	
3.1	Useful Features	<ul style="list-style-type: none">• Inventory Management• Customer Management• Service Management• Shopping Cart/Order Creation• Checkout System• Security
4.	Software / Languages	

4.1	Software	VSCode XAMPP (includes Apache web server, MySQL database server, and PHP) Webex Asana Github Figma
4.2	Language	HTML, CSS, Javascript, SQL, PHP
4.3	Purpose of languages / software (mentioned above)	VSCode - coding editor XAMPP - web server product that includes Apache web server, MySQL Webex - web conferencing tool Asana - web work management tool Github - cloud based code repository database server, PHP Figma - Graphic design/prototyping tool HTML/CSS - Frontend Javascript - Tying backend to frontend SQL - Database PHP - Backend/frontend - pipeline

Project Proposal

Hudson Valley Audio Visual Equipment Rental System Project

Team Members:

Asfand Salam Alavi, Jorge Cruz, Jennie Q. Colabella, Antonio Finelli, Nicholas Finelli, Christopher Moschetti, Taimur Tawil

VISION STATEMENT

Executive Summary

We will be creating a cloud based point of sale system for Hudson Valley Audio Visual, a small company that has been serving the Capital Region, Hudson Valley, and Westchester County since 1996. The purpose of the system is to enable the client to streamline their rental workflow. The finished product will allow company employees to manage inventory, create rental packages for clients, and create and manage service requests.

Project Proposal

The client's current system requires prospective customers to complete a form that asks for their contact information, details about their event and the type(s) of services they're interested in. When the manager receives the information they have to search their emails for prices and package information which differs depending on the type of event and client. Our proposal is to create a system that will allow the manager and their staff to quickly access the package information and price list(s) so they can focus their attention on other areas of their business.

Business Case & Benefits For Stakeholders & The End User Community:

The primary end user for the first iteration of this system will be the client's staff. The client has requested a streamlined system that they can use to manage their equipment rental process. This would allow them to spend more time on other areas of their business.

Market Analysis And Differentiation From Current Competition:

The Hudson Valley Region is home to a variety of audio visual rental/event coordination businesses. These include:

SALVIN DESIGN (<https://www.salvin.biz/>)

Salvin Design is an audio visual rental company based in Kingston, New York. They have 41 years experience in the industry. Their home page is busy. The background of their website is purple which makes it difficult to read. Nearly two-thirds of the main screen area contains photos and video clips of some of their jobs. Their audio and video pages include lists of specific pieces of equipment that are available, and their service page describes the services they offer, but two-thirds of each of those pages is blank.

TVI (<https://technical-video.com/av-rentals/>)

Technical Video Incorporated is an audio visual sales and rental company based in Albany, New York. They have 36 years of experience in the industry. Their home page is clean and the colors are coordinated (white background with black and red text). The screen is filled with an image carousel that contains photos of previous jobs. The next section contains a well laid out menu for their main products and services. The bottom section contains an area for the company to post promotional articles. Their event staging and services pages describe what they do, but prospective clients have to call or email them for information.

Stakeholders:**Primary Stakeholder:**

Joseph Harrington, owner, Hudson Valley Audio Visual

Other Stakeholders:

Managers and employees at Hudson Valley Audio Visual

Members of the public who live in the service area who are in the market for audio visual rental, installations, or event planning

Project Managers:

Anthony Denizard, Professor of Computer Science, SUNY New Paltz

Major Features:

A point of sale system that meets FRC standards and includes the following features:

- Inventory Management
- Customer Management
- Service Management
- Shopping Cart/Order Creation and Checkout System
- Security

Major Risks:

- Meeting client expectations while managing the allotted time and available resources
- Not appealing to the end users enough to create a commitment to further development
- Attempting to complete a client wish list that's too broad given the time limit