



IT CAPSTONE PROJECT PLAN

Owl Cyber Defense Systems

Abstract

A cybersecurity defense company meeting small business needs for all-around cyber protection with proprietary world-class product offerings at an affordable cost.

Project Lead: Scott Gilstrap
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Project Plan for Owl Cyber Defense Systems

Date: January 28, 2024

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Overview

With the ever-maturing sophisticated stature of cybercriminals today, organizations cannot rely on out-of-the-box cybersecurity protections alone. OOB antivirus software and basic firewalls are not enough. With each passing year, cybercriminals are becoming smarter, and continuously evolving. Their tactics are more resilient to conventional cyber defenses. Businesses must address all aspects of cybersecurity to stay well-protected. Owl Cyber Defense Systems is a startup IT cybersecurity company being built from the ground up to meet the evolving cybersecurity defense requirements to protect today’s businesses.

This project is based on the requirements of the founder, the project owner/sponsor, for his team to design and develop the company and deliver a presentation utilizing proprietary charts and diagrams where appropriate to convince investors to invest in the IT cybersecurity business model.

Students will be required to exhibit both technical and soft skill components. The student team, made up of five students, will be required to collaborate (physically and/or virtually), communicate efficiently, research thoroughly, and plan accordingly. They will need to define the problem, conduct project management, and engage in technical writing of appropriate documentation; ultimately culminating in a presentation to the instructor (project owner/sponsor) in a format to convince investors to invest in the company. The students will be required to learn and practice new knowledge and skills and the project will have real-world context, requirements, communications, and challenges.

Project Team

Roles	Name	Major responsibilities	Contact (Email and/or Phone)
Project owner	Dr. Ying Xie	Approve project proposal/requirements. Receive updates and provide guidance and advice on project Epics and Milestones during weekly project status update meetings with Team Lead / Project Manager.	yxie2@kennesaw.edu 470-578-2143 (office)
Team leader	Scott Gilstrap	Manage overall project planning via Jira project management to include Epic and Task tracking/completion to meet timely milestones. Facilitate fluid team communication via MS Teams and e-mail, conduct weekly meetings, and encourage daily scrum messaging to drive project progress. Meet weekly with the instructor (project sponsor/owner) to provide status updates and relay guidance to the team accordingly. Design and build the company Business Plan as well as the IT Security and Risk Management Plan client offerings.	rgilstra@kennesaw.stidents.edu 770-324-2314 (mobile)
Team members	Stephanie Aguirre	Technical Writer. Research and design company policy list as well as review all business plan documentation. Design and build out the Cybersecurity Awareness Training client offering.	saguirr5@students.kennesaw.edu
	Chris Dunbar	Technical Specialist / Developer. Design and build company website. Design and develop Zero Trust security protection client offering and Advanced firewall, SIEM and log analyzers.	cdunbar@students.kennesaw.edu
	Ryan LeBlanc	Technical Specialist / Developer. Design and develop a Trusted AI Assistant client offering to facilitate preferred cybersecurity configuration models for network analysis and more.	rleblanc@students.kennesaw.edu
	Justin Place	Technical Specialist / Developer. Design and develop AI-enabled server-hardening client offerings to facilitate clients passing NIST audit requirements.	jplace2@students.kennesaw.edu
Advisor / Instructor	Dr. Ying Xie	Facilitate project progress; advise on project planning and management.	yxie2@kennesaw.edu 470-578-2143 (office)

Project Website URL

The project progress is tracked via Jira cloud project management SaaS software and will be available 24x7. The Project Manager will invite stakeholders as appropriate.

- Project Plan: [KSU MSIT Capstone - Owl Cyber Defense Systems - Timeline - Jira \(atlassian.net\)](#)
- Project Website: project.ocds.tech
- Company Website: www.ocds.tech

Final Deliverables

1. Project/Company Website
2. Owl Cyber Defense Systems Business Plan
3. Product Offerings
 - Client IT Security Plan build-out
 - Client Risk Management Plan build-out
 - Client Cyber Awareness Training
 - AI-enabled Zero Trust server hardening tool
 - Zero Trust Compliant Advanced Firewall, SIEM, and Log Analyzer
4. Final Presentation

Milestones

#1 - By 02/18/2024 [Sprint 1]

- Project/Company website infrastructure build-out complete
- Project website live
- Planning & Design complete for
 - Business Plan
 - Initial Policy List
 - Product Offerings
 - Client IT Security Plan build-out
 - Client Risk Management Plan build-out
 - Client Cyber Awareness Training
 - AI-enabled Zero Trust server hardening tool
 - Zero Trust Compliant Advanced Firewall, SIEM, and Log Analyzer

#2 - By 03/17/2024 [Sprint 2]

- Business Plan Complete
- Company website live
- IT Policy List Complete
- Development & Testing Complete for
 - Business website
 - IT Security Planning
 - Risk Management Planning
 - Cyber Awareness Training

- AI-enabled Zero Trust server hardening tool
- Zero Trust security protection tool
- Zero Trust Compliant Advanced Firewall, SIEM, and Log Analyzer

#3 - By 04/21/2021 [Sprint 3]

- Business Plan and IT Policy List Verified
- Implementation & Release Complete for all functional product offerings
- Final Presentation

Future milestone meetings date/time

- Milestone 1 Verification Team Meeting: 02/17/2024 1000 ET
- Milestone 2 Verification Team Meeting: 03/16/2024 1000 ET
- Milestone 3 Verification Team Meeting: 04/20/2024 1000 ET
- Project Deliverables Package and Presentation Review Meeting: 04/27/2024 1000 ET

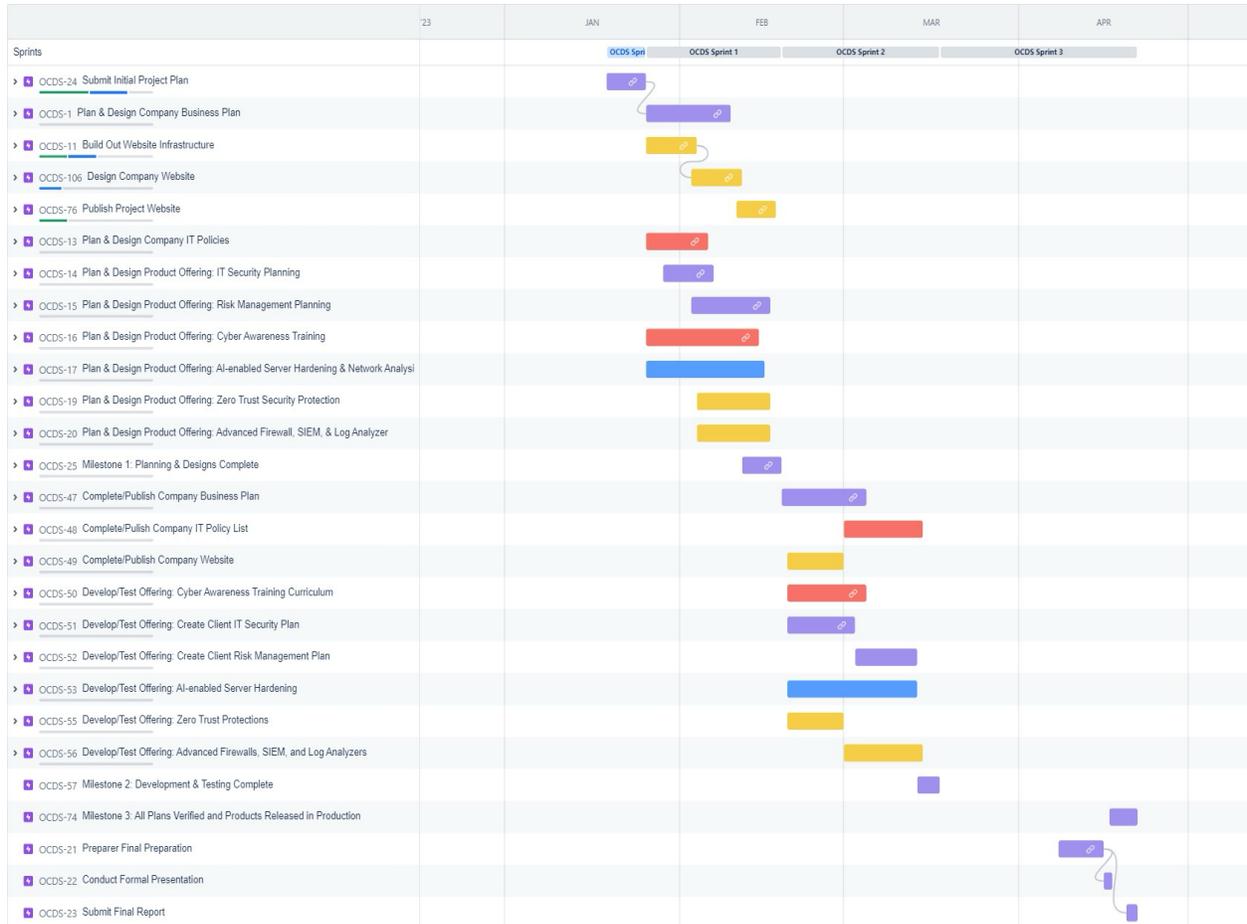
Collaboration and Communication Plan

- **Project Tracking:** Jira Project Management SaaS software
- **SDLC Methodology:** Agile Methodology with Scrum approach with timed sprints

Description	Frequency	Method	Audience	Owner
Project Team Meetings	Weekly: Saturday 1000 ET	MS Teams General channel	Project team	Project Manager / Team Lead
Project Sponsor / Owner Update	Weekly: Tue 1830-1945 ET	Face-to-face meeting with hard copy report delivery	Team Lead and Project Owner	Project Manager / Team Lead
Scrum Updates: -What I completed yesterday -What I am working on today -Blockers	Daily	MS Teams Daily Scrum Update channel	Project team	Task Owners
Stakeholder Updates	Continuous (available anytime)	Jira SaaS Software status reports and Confluence page	Stakeholders	Project Manager / Team Lead

Project Schedule and Tasks Planning

Powered by Jira Project Management.



Person-hour Project Planning/Scheduling

Powered by Jira Project Management.

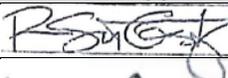
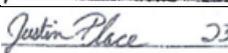
Person-hours (Jira)
 Project: KSU MSIT Capstone - Owl Cyber Defense Systems
 Sorted by: Sprint ascending, then Created descending
 1-130 of 130 as at: 28/Jan/24 7:59 PM

T	Sprint	Summary	Assignee	Status	Due	Original estimate	Time Spent
<input checked="" type="checkbox"/>	OCDS Sprint 0	Generate Team Logo	Chris Dunbar	DONE	23/Jan/24	2 hours	2 hours
<input checked="" type="checkbox"/>	OCDS Sprint 0	Upload Project Plan Document	Scott Gilstrap	TO DO	25/Jan/24	15 minutes	
<input checked="" type="checkbox"/>	OCDS Sprint 0	Get Plan Document Approved by Project Sponsor	Scott Gilstrap	TO DO	23/Jan/24	1 hour	30 minutes
<input checked="" type="checkbox"/>	OCDS Sprint 0	Get Plan Document Approved by Team Members	Scott Gilstrap	DONE	23/Jan/24	30 minutes	1 hour, 30 minutes
<input checked="" type="checkbox"/>	OCDS Sprint 0	Create Plan Document	Scott Gilstrap	DONE	23/Jan/24	3 hours	5 hours
<input checked="" type="checkbox"/>	OCDS Sprint 0	Create Dependencies	Scott Gilstrap	IN PROGRESS	24/Jan/24	1 hour	4 hours
<input checked="" type="checkbox"/>	OCDS Sprint 0	Create Tasks	Scott Gilstrap	IN PROGRESS	24/Jan/24	5 hours	4 hours
<input checked="" type="checkbox"/>	OCDS Sprint 0	Create Epics	Scott Gilstrap	IN PROGRESS	23/Jan/24	3 hours	6 hours
<input checked="" type="checkbox"/>	OCDS Sprint 0	Interview team members	Scott Gilstrap	DONE	22/Jan/24	30 minutes	1 hour, 30 minutes
<input checked="" type="checkbox"/>	OCDS Sprint 1	Verify Infrastructure Build Out	Chris Dunbar	TO DO	13/Feb/24	30 minutes	
<input checked="" type="checkbox"/>	OCDS Sprint 1	Plan/Design AI Training	Unassigned	TO DO	15/Feb/24	5 hours	
<input checked="" type="checkbox"/>	OCDS Sprint 1	Plan/Design Dataset Configuration	Unassigned	TO DO	10/Feb/24	5 hours	
<input checked="" type="checkbox"/>	OCDS Sprint 1	Research NIST 800-53 Family Standards	Unassigned	TO DO	02/Feb/24	4 hours	
<input checked="" type="checkbox"/>	OCDS Sprint 1	Design OCDS IT Risk Mgmt Product Offering	Scott Gilstrap	TO DO	15/Feb/24	3 hours	
<input checked="" type="checkbox"/>	OCDS Sprint 1	Conduct OCDS Planning Based on Reseach	Scott Gilstrap	TO DO	10/Feb/24	3 hours	
<input checked="" type="checkbox"/>	OCDS Sprint 1	Research IT Risk Management Planning	Scott Gilstrap	TO DO	07/Feb/24	5 hours	

Approval Signatures

Project Lead and Project Team approvals. Final approval by the Project Owner/Sponsor/Instructor.

Team Approvals

Name	Title	Approval Signature
Scott Gilstrap	Team Lead / Project Manager	 23 JAN 24
Stephanie Aguirre	Technical Writer / Developer	 23 JAN 24
Chris Dunbar	Technical Specialist / Developer	 23 Jan 24
Ryan LeBlanc	Technical Specialist / Developer	 24 Jan 24
Justin Place	Technical Specialist / Developer	 23 Jan 24

Final Approval

Name	Title	Approval Signature
Dr. Ying Xie	Project Owner/Sponsor (Instructor)	