

Cargo Connect

Project Closeout Report

SE 6387 Advanced Software Engineering Project

R.Z. Wenkstern

5-10-25

Group 1
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Revision History

Version	Date	Description	Authors
1.0	5-8-25	Made initial edits to document template	BS

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1. General Information

Provide basic information about the project including: *Project Title* – The proper name used to identify this project; *Project Working Title* – The working name or acronym that will be used for the project; *Proponent Department/Division* – The department/division that will be responsible for the management of the project; *Prepared by* – The person(s) preparing this document; *Date/Control Number* – The date the report is finalized and the change or configuration item control number assigned.

<i>Project Title:</i>	Cargo Connect	<i>Project Working Title:</i>	Cargo Connect
	UTD		
<i>Proponent Department/Division:</i>			
	Brad Stover		5-10-25
<i>Prepared by:</i>		<i>Date/ Control Number:</i>	

2. Project Deliverables

List all Project Deliverables and the date each was accepted by the user. Identify any contingencies or conditions related to acceptance.

<i>Deliverable</i>	<i>Date Accepted</i>	<i>Contingencies or Conditions</i>
PowerPoint Presentation	5-10-25	All parts completed by respective team member(s)
Final Video	5-10-25	Final draft completed
Master Codebase	5-10-25	All code revisions completed
Final Versions of Documentation	5-10-25	All final drafts done
Closeout Document	5-10-25	All sections completed/updated

3. Performance Baseline

Document how the project performed against each Performance Goal established in the Project Plan.

Project Business Objective	Performance Goal	Results
Get all work done in timely fashion in terms of deliverables	Meet each deadline (1h before minimum)	Done
Create a system that: uses real-time traffic data, makes dynamic routing decisions, helps trucks avoid congestion, and keeps deliveries on time and operations running smoothly	Have all deliverables submitted by May 10th, 2025	Done

4. Cost (Budget) Baseline

State the Planned Cost and Funding for the project, as approved in the Initial Cost Baseline and the Project Charter. State the Actual Cost and Funding at completion. Document and explain all cost and funding variances, including approved changes to the cost baseline.

Expenditures (\$000)				
	Planned	Actual	Variance	Explanation
Internal Staff Labor				
<i>Services</i>	\$0	\$0	\$0	
<i>Software Tools</i>	\$0	\$10/mo	\$10	Heroku subscription for hosting
<i>Hardware</i>	\$0	\$0	\$0	
<i>Materials and Supplies</i>	\$0	\$0	\$0	
<i>Facilities</i>	\$0	\$0	\$0	
<i>Telecommunications</i>	\$0	\$0	\$0	
<i>Training</i>	\$0	\$0	\$0	
<i>Contingency (Risk)</i>	\$0	\$0	\$0	

<i>Total</i>	\$0	\$10/mo	\$10/mo	Described above - Heroku
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Funding Source (\$000)				
	<i>Planned</i>	<i>Actual</i>	<i>Variance</i>	<i>Explanation</i>
<i>General Fund</i>				
<i>Non-General Fund</i>	\$0	\$0	\$0	
<i>Federal</i>	\$0	\$0	\$0	
Other				
<i>Total</i>	\$0	\$0	\$0	No funding necessary

5. Schedule Baseline

Compare the initial approved schedule baseline against the actual completion dates. Enter the planned start and finish dates from the initial schedule baseline. Document all actual start, finish dates, and explain any schedule variances, including approved changes to the schedule baseline

WBS Elements Activity or Task	Planned Start Date	Actual Start Date	Planned Finish Date	Actual Finish Date	Variance	Explanation of Variance
Feasibility Report	2-4-25	2-4-25	2-11-25	2-11-25	None	N/A
Project Plan	2-13-25	2-13-25	2-20-25	2-20-25	None	N/A
SRS	2-19-25	2-19-25	2-26-25	2-26-25	None	N/A
Requirement Analysis	3-4-25	3-4-25	3-11-25	3-11-25	None	N/A
Test Documentation	3-18-25	3-18-25	3-25-25	3-25-25	None	N/A
High-Level Architecture	3-24-25	3-24-25	3-31-25	3-31-25	None	N/A
System Design	3-24-25	3-24-25	3-31-25	3-31-25	None	N/A
UC1	3-24-25	3-24-25	3-31-25	3-31-25	None	N/A
Revised Documentation	4-10-25	4-10-25	4-17-25	4-17-25	None	N/A
Revised Documentation	4-17-25	4-17-25	4-24-25	4-24-25	None	N/A
Revised Documentation	4-22-25	4-22-25	4-29-25	4-29-25	None	N/A
Final Deliverables	5-3-25	5-3-25	5-10-25	5-10-25	None	N/A

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6. Scope

Document any changes to the Project Scope and their impact on Performance, Cost, or Schedule Baselines.

<i>Scope Change</i>	<i>Impact of Scope Change</i>
Implementing mock DALI system	No effect on cost; number of developers to dedicate to both backend and frontend temporarily decreased while addressing the building of mock DALI system, impacting performance; no effect on schedule
Implementing mock airport system	No effect on cost; number of developers to dedicate to both backend and frontend temporarily decreased while addressing the construction of mock airport system, impacting performance; no effect on schedule

7. Operations and Maintenance

Describe the plan for operation and maintenance of the product, good, or service delivered by the project. State the projected annual cost to operate and maintain the product, good, or service. Identify where and why this projection of cost differs (if it differs) from the Project Proposal. If the operation and maintenance plan is not in place, what is the target date for the plan and what is the impact of not having operations and maintenance for the product, good, or services in place.

7.1 Operations and Maintenance Plan

7.2 Operations and Maintenance Cost

Expenditures (\$000)				
	<i>Planned</i>	<i>Actual</i>	<i>Variance</i>	<i>Explanation</i>
Internal Staff Labor				
<i>Services</i>	\$0	\$0	\$0	
<i>Software Tools</i>	\$0	\$10	\$10	Heroku subscription for hosting backend
<i>Hardware</i>	\$0	\$0	\$0	
<i>Materials and Supplies</i>	\$0	\$0	\$0	
<i>Facilities</i>	\$0	\$0	\$0	
<i>Telecommunications</i>	\$0	\$0	\$0	
<i>Training</i>	\$0	\$0	\$0	

<i>Contingency (Risk)</i>	\$0	\$0	\$0	
<i>Total</i>	\$0	\$10	\$10	See Heroku above

Funding Source (\$000)				
	<i>Planned</i>	<i>Actual</i>	<i>Variance</i>	<i>Explanation</i>
<i>General Fund</i>				
<i>Non-General Fund</i>	\$0	\$0	\$0	\$0
<i>Federal</i>	\$0	\$0	\$0	\$0
Other				
<i>Total</i>	\$0	\$0	\$0	None needed

8. Project Resources

List the Resources specified in the Project Plan and used by the project. Identify to whom each resource was transferred and when it was transferred. Account for all project resources utilized by the project.

<i>Resource</i> <i>(Describe or name the resource used)</i>	<i>Person or Organization Who Received Resource</i>	<i>Turnover Date</i>
Project Team	N/A	N/A
Customer Support	N/A	N/A

Facilities	N/A	N/A
Equipment	N/A	N/A
Software Tools	N/A	N/A
Other	N/A	N/A

9. Project Documentation

Identify all project documentation materials stored in the project library or other repository. Identify the type of media used and the disposition of the project documentation (see Communications Plan).

<i>Report(s) and Document(s)</i>	<i>Media Used</i>	<i>Storage Location</i>	<i>Disposition</i>
Feasibility Report	PDF	UTD Box	Uploaded
Project Plan	PDF	UTD Box	Uploaded
SRS	PDF	UTD Box	Uploaded
Requirement Analysis	PDF	UTD Box	Uploaded
Test Documentation	PDF	UTD Box	Uploaded
High-Level Architecture	PDF	UTD Box	Uploaded
System Design	PDF	UTD Box	Uploaded
UC1	PDF	UTD Box	Uploaded
Feasibility Report	PDF	UTD Box	Uploaded

Project Plan	PDF	UTD Box	Uploaded
SRS	PDF	UTD Box	Uploaded
Requirement Analysis	PDF	UTD Box	Uploaded
Final Deliverables	PDF, PPT, .ZIP files	UTD Box	Uploaded

10. Lessons Learned

Identify Lessons Learned for feedback to the company/organization. Lessons Learned should be stated in terms of Problems (or issues) and Corrective Actions taken. Provide a brief discussion of the problem that identifies its nature, source, and impact. Site any references that provide additional detail. References may include project reports, plans, issue logs, change management documents, and general literature or guidance used that comes from another source.

Statement of Problem	Discussion	References	Corrective Actions
Various bugs in frontend code	Due primarily to two developers working on the frontend		Consulted online resources and each other when necessary to fix bugs
Too many branches for mobile app frontend on Github	Due to hesitancy to overwrite existing code		Decided on one final branch; exchanged working branch names constantly
End-to-end project lifecycle ownership	Due to difficulty of defining clear problem statements and balancing diagrams with documentation	Final PPT	Constantly revised diagrams to match code and rest of documentation
Modular and scalable system design	Due to difficulty of decoupling components	Final PPT	Decoupled components to enable plug-and-play mock systems

Third-party integration and parallelism	Due to difficulty of designing asynchronous workflows	Final PPT	Integrated main system with DALI mock and airport mock
Collaboration and adaptability	Due to not being able to receive feedback on a daily basis on project	Final PPT	Took into account iterative feedback from professor during semester-long demos to improve our system design

11. Dates for Post Implementation Review and Report

Identify the date for completing the post implementation report and the person responsible for this action.

<i>Action</i>	<i>Date</i>	<i>Responsible Person</i>
Post - Implementation Review	5-10-25	Brad Stover
Post - Implementation Report	5-10-25	Brad Stover

12. Approvals

<i>Position/Title</i>	<i>Signature/Printed Name/Title</i>	<i>Date</i>
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<i>Project Manager</i>	Anuja FNU	5-10-25
<i>Project Sponsor</i>		
<i>Program/Agency Management</i>		

Appendix A: Glossary

Term	Definition
Box	A cloud storage platform used by the University of Texas at Dallas for document storage.
DALI mock system	A third-party logistics API system leveraging Laravel for mock purposes.
GitHub	A web-based platform for version control used to manage source code.
Heroku	A cloud-based platform-as-a-service allowing developers to build, run, and deploy applications.
Jetpack Compose	A modern Android UI toolkit for building native UIs.
Laravel	A PHP framework used to simulate the DALI system in the absence of real access.
PostgreSQL	An open-source relational database used for storing project data.
SRS	Software Requirements Specification; outlines project requirements
UC1	Use Case 1; a specific scenario described and implemented in the project

Appendix B: References

Project closeout report, Virginia Information Technologies Agency

UTD Box. *The University of Texas at Dallas Cloud Storage Service*. Retrieved from <https://utdallas.account.box.com>