Faliure Mode and Effect Analysis

Purpose of Document: To present analysis of potential risks and failures.

Mode: How the risk will present itself

Effect: The effect the risk will have

Contingency Plan: The contingency for the event of the risk

Severity: How severe the risk is

Likelihood: How likely the risk is to occur

Detection: How detectable the risk is

Score: Points indicating overall priority by multiplying Severity, Likelihood, and Detection

Failure Mode and Effect Analysis						
Mode	Effect	Contingency Plan	Severity	Likelihood	Detection	Score
Scope Creep	Scope becomes out of control	Establish scope early and carefully consider features	8	3	7	210
Documentation Loss	Causes delays	Usage of Google Drive to centralize and secure documentation	9	2	4	72
Hardware failure	Delays development of project	Usage of university computer resources	5	5	10	250
Insufficient Documentation	Fails major deliverable	Ensure documentation reviews	10	3	0	0
AWS goes down	Prevents progress	Contact the project supervisor and team, discuss options	10	3	10	300
Team member illness	Causes delays/prevents progress	Contact project supervisor and team, discuss options	8	5	10	400
Loss of code	Severely delays project	Maintain backups of code	10	2	5	100
Software failure	Delays development of project	Focus team on correcting issue	7	5	5	175