GoldFusion Al

Milestone 4

12.10.2023

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Lessons Learned Report:

Ja'Chelle Johnson:

During this process, I want to change my career and explore a career in UX design. I began this process by thinking I wanted to be a leader and a project manager. After creating the interactive design, I learned I wanted to be creative through technology and website design. I learned this information when I was allowed to do this project. I also learned that I prefer to avoid being a project manager because you never know who will be on your team, and the project manager must represent the team regardless of how the group operates.

Jonathan Jean:

During the project, I learned about the extensive uses of APIs and how they can be connected and used to improve projects. After creating the list of AIPS that would be needed, I went on to look for videos of people successfully using APIs, and I was impressed with the wealth of information I found during the search. I learned that I enjoyed not being a project manager because it's easier for me to be told what part of an assignment I need to complete so that I can mainly focus on that and not have to make sure others are on task.

Ramsey Burls:

I learned much more about what is needed to start a project during the project. One of my biggest takeaways was the documentation of everything that we did throughout the semester. Usually, I am used to taking notes for myself, which tends to be less detailed, but with other people viewing what you are completing, tasks need to be more fledged out. I also learned that I enjoy not being a project manager as the lack of responsibility over the project helped me balance completing everything easier.

Risk Register:

AI FINANCIAL AID RISK REGISTER

ID	Risk Descripti on	Category	Likelihood (1-5)	Impact (1-5)	Risk Score	Mitigation Strategy	Owner	Status
RO01	API Service Outage	Technolog y	3	4	12	Implemen t backup APIs	[Technical Lead]	[Closed]
R002	Data Security Breach	Security	2	5	10	Regular security audits	[Security Officer]	[Closed]
R003	Unreliable Al Prediction s	Technolog y	3	3	9	Continuo us model monitorin g	[Data Scientist]	[In Progress]
ROO4	Integratio n Complexi ty	Technolog y	4	4	16	Conduct thorough integratio n testing	[Integratio n Specialist]	[Open]
R005	Inadequat e User Training	Human	2	3	6	Provide comprehe nsive user training	[Training Coordinat or]	[Closed]
R006	Legal Complian ce Issues	Complian ce	3	4	12	Regular legal reviews	[Legal Counsel]	[Closed]
R007	API Versionin g Issues	Technolog y	2	3	6	Monitor API updates and plan for versionin g	[Technical Lead]	[Open]
ROO8	Insufficien t Vendor Support	Procurem ent	3	3	9	Establish clear communi cation channels with vendors	[Procure ment Lead]	[In Progress]
R009	Inadequat e Scalability	Technolog y	3	4	12	Conduct scalability testing	[Technical Lead]	[In Progress]

RO36	Lack of Cross-Trai ning for Team Members	Human	2	3	6	Implemen t cross-trai ning programs	[Team Lead]	[Open]
RO37	Inadequat e Knowledg e Transfer	Human	3	3	9	Facilitate knowledg e transfer sessions	[Knowled ge Manager]	[Open]
RO38	Lack of Successio n Planning	Human	2	4	8	Implemen t a robust successio n planning process	[HR Manager]	[In Progress]
RO39	Inadequat e Documen tation	Documen tation	3	3	9	Ensure comprehe nsive project document ation	[Technical Writer]	[In Progress]
R040	Inadequat e Contingen cy Planning	Project Managem ent	2	4	8	Develop and test contingen cy plans	[Project Manager]	[In Progress]

RO28	Inadequat e Testing Environm ent	Technolog y	3	3	9	Ensure a realistic testing environm ent	[Quality Assuranc e Lead]	[In Progress]
R029	Insufficien t Data Governan ce	Data Governan ce	3	4	12	Implemen t robust data governan ce policies	[Data Governan ce Officer]	[In Progress]
RO30	Lack of System Redundan cy	Technolog y	2	4	8	Implemen t system redundan cy measures	[IT Operation s]	[In Progress]
RO31	Inadequat e User Access Controls	Security	3	4	12	Implemen t strong user access controls	[Security Officer]	[Open]
RO32	Lack of Regulator Y Complian ce Checks	Complian ce	2	3	6	Implemen t regular complian ce checks	[Complian ce Officer]	[Open]
RO33	Inadequat e Incident Response Plan	Security	3	5	15	Develop and test an incident response plan	[Security Officer]	[In Progress]
RO34	Lack of Training for Support Team	Human	2	3	6	Provide comprehe nsive training for support team	[Training Coordinat or]	[Closed]
RO35	Inadequat e Vendor Risk Assessme nt	Procurem ent	3	4	12	Conduct regular vendor risk assessme nts	[Risk Manager]	[In Progress]

RO19	Inadequat e Change Managem ent	Change Managem ent	2	4	8	Implemen t effective change managem ent processes	[Change Manager]	[In Progress]
R020	Inaccurat e Data Inputs	Data Quality	3	3	9	Implemen t data validation checks	[Data Analyst]	[Open]
RO21	Lack of Performa nce Testing	Technolog y	3	4	12	Conduct rigorous performa nce testing	[Performa nce Engineer]	[Open]
RO22	Insufficien t Backup Strategy	Technolog y	3	3	9	Implemen t regular data backups	[IT Operation s]	[In Progress]
RO23	External Depende ncy Failure	Technolog y	2	4	8	Identify and monitor critical dependen cies	[Technical Lead]	[In Progress]
RO24	Lack of AI Model Explainab ility	Technolog y	3	3	9	Implemen t explainabi lity technique s	[Data Scientist]	[In Progress]
RO25	Insufficien t Capacity Planning	Technolog y	3	4	12	Perform regular capacity planning	[IT Operation s]	[In Progress]
RO26	Inadequat e User Feedback Mechanis m	Human	2	3	6	Implemen t user feedback mechanis ms	[User Experienc e Lead]	[Open]
RO27	Lack of Vendor Performa nce Monitorin g	Procurem ent	3	4	12	Monitor vendor performa nce metrics	[Procure ment Lead]	[Closed]

	Changes							
R010	in Regulator y Landscap e	Complian ce	4	4	16	Stay informed and adapt policies	[Complian ce Officer]	[In Progress]
RO11	Lack of User Adoption	Human	2	3	6	Implemen t user feedback loop	[User Experienc e Lead]	[Closed]
RO12	Insufficien t System Monitorin g	Technolog y	3	4	12	Implemen t robust monitorin g tools	[IT Operation s]	[Closed]
RO13	Budget Overruns	Financial	2	4	8	Regularly review and adjust budget	[Financial Manager]	[Open]
RO14	Lack of API Documen tation	Technolog y	3	2	6	Ensure comprehe nsive API document ation	[Technical Writer]	[In Progress]
RO15	Inadequat e Disaster Recovery Plan	Technolog y	3	5	15	Develop and test a robust disaster recovery plan	[IT Manager]	[Open]
RO16	Incomplet e Requirem ents	Project Managem ent	2	3	6	Conduct thorough requirem ents analysis	[Business Analyst]	[Closed]
R017	Insufficien t Stakehold er Communi cation	Communi cation	3	3	9	Establish regular communi cation channels	[Project Manager]	[Closed]
RO18	Lack of Cross-Fu nctional Collabora tion	Collabora tion	3	4	12	Foster a collaborat ive project culture	[Project Lead]	[In Progress]

Data Dictionary:

Table Name	Attribute Name	Туре	Format	Domain	Required	PK/FK
	id	Integer	123	Student ID	Υ	PK/FK
	name	String	Abc	Student Name	Υ	
	famulD	Integer	123	University ID	Υ	
	email	VarChar	Abc/123	Email	Υ	
Student	dob	VarChar	123	Date of Birth	Υ	
	id	Integer	123	Financial Aid Database	Υ	PK
	year	Integer	123	Financial Aid Database	Υ	
	status	String	Abc	Financial Aid Database	Υ	
	requestID	Integer	123	Financial Aid Database	Υ	
FinancialAid	requestType	String	Abc	Financial Aid Database		
	id	Integer	123	Financial Aid Repository	Υ	PK
	timestamp	Integer	123	Financial Aid Repository	Υ	
chatHistory	message	String	Abc	Financial Aid Repository	Υ	
	id	Integer	123	Student Guardian Information	Υ	PK
	name	String	Abc	Student Guardian Information	Υ	
	studentID	Integer	123	Student ID	Υ	FK
guardians	dob	VarChar	123	Student Guardian Information	Υ	

Collections Relationship:

```
"students": [
  " id": 1,
  "name": "<Student Name>",
  "famuID": "<FAMU ID>",
  "email": "<Student Email>",
  "dob": "<Student Date of Birth>",
  "financialAid": [
    " id": 101,
    "year": <Year>,
    "status": "<Financial Aid Status>",
    "requests": [
       " id": 1001,
       "type": "<Aid Type>"
  "chatHistory": [
    " id": 2001,
    "timestamp": "<Timestamp>",
    "message": "<Chat Message>"
  "guardians": [
    " id": 301,
    "name": "<Guardian Name>",
    "studentID": 1,
    "dob": "<Guardian Date of Birth>"
```

```
" id": 2,
"name": "<Student Name>",
"famuID": "<FAMU ID>",
"email": "<Student Email>",
"dob": "<Student Date of Birth>",
"financialAid": [
  "_id": 102,
  "year": <Year>,
  "status": "<Financial Aid Status>",
  "requests": [
    " id": 1002,
    "type": "<Aid Type>"
"chatHistory": [
  " id": 2002,
  "timestamp": "<Timestamp>",
  "message": "<Chat Message>"
"guardians": [
  " id": 302,
  "name": "<Guardian Name>",
  "studentID": 2,
  "dob": "<Guardian Date of Birth>"
```

Poster:

