

Book Dino

- ▶ Andrew Arlick
- ▶ Fengyun Chen
- ▶ Shubh Goyal
- ▶ Michael Nguyen



Purpose

- ▶ The purpose of the Book Dino project is to create an application that assists educators and young readers in finding appropriate reading material.
- ▶ A web-based application that uses generative AI to recommend reading material for students based on their interests and reading level.
- ▶ We got the idea from speaking directly to educators in our area.

Value

- ▶ The main benefit is improving the education system to help tailor to individual needs and interests.
- ▶ When discussing the idea with educators of young readers we learned that this type of product could be extremely helpful to them

Resources (Roles and Responsibilities)

- ▶ Project Manager: Plans, executes, and controls the project's success.
- ▶ Operation Manager: Ensures the project operates effectively and manages resources.
- ▶ Product Manager: Ensuring products and services delivered meet the needs of the user.
- ▶ Solutions Architect: Providing technical support to meet project requirements.
- ▶ Software/QA Engineers: Supporting software designs and development.
- ▶ Business Analyst: Responsible for analyzing business requirements.

BOOK DINO

powered by ai

Hi! I'm Book Dino, here to help you find the perfect book! Let's get started, what is the name and age of the reader?



Issac, he's 9.



Awesome! What grade is Issac in?



He's in the 4th grade.



Fun! Now, what is Issac's reading level? You can give me his Lexile score, Scholastic reading level, whether he's advanced or behind for his age, or any other metric you use!



Issac is right on track for a 4th grader, his Lexile score is about 700L.



Perfect, almost done! What kind of topics and genre's does Issac like? You can also give me other books he's enjoyed recently.



He loves fantasy and adventure books. He loves the Beast Quest series by Adam Blade.



Great, now give me just a few seconds and I'll find some perfect books for Issac!



BOOK DINO

powered by ai

Based on what you've told me about Issac, I think he might love "The Lightning Thief (Percy Jackson and the Olympians Series #1)" by Rick Riordan. Would you like me to help you find a copy?



Yes please!

It appears to be available for purchase online at the following retailers.

Barnes and Noble

<https://www.barnesandnoble.com/w/lightning-thief-rick-riordan/1100190320>

Amazon

<https://www.amazon.com/Percy-Jackson-Lightning-Thief-Book/dp/0141346809>

Target

<https://www.target.com/p/percy-jackson-and-the-olympians-book-one-the-lightning-thief-percy-jackson-38-the-olympians-by-rick-riordan-paperback/-/A-84597366>

If you provide your ZIP code I can also search for nearby libraries with this title.

BOOK DINO

powered by ai

Please do, my ZIP
code is 02215



The Lightning Thief (Percy Jackson and the Olympians Series #1)™ by Rick Riordan is available at the Boston Public Library Central Library in Copley Square 700 Boylston Street Boston, MA 02116.

<https://bpl.bibliocommons.com/v2/record/S75C8353846>



Thank you! Issac
will love this!



My pleasure! Please come
back soon if you need
more personalized book
recommendations!



Chat Ended

How'd we do?



[Submit Feedback](#)

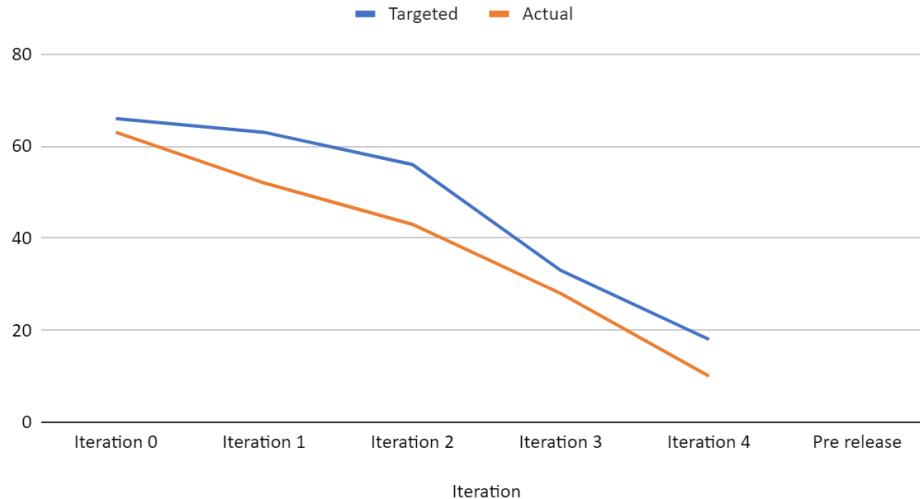
How we accomplished our goals

- ▶ Initiation Process - Project Charter, Vision/Elevator Statement.
- ▶ Scope Statement - Project Description: Project aims to develop a user-friendly website that provides a comprehensive platform for users to discover, search and access a wide range of reading materials. The platform will utilize a dynamic query and recommendations based on user preferences, making it a valuable resource for readers of all ages and interests.
- ▶ Stakeholder Identification Plan: Andrew Arlick - Project Manager, Fengyun Chen - Web Developer, Shubh Goyal - Web Developer, Michael Nguyen - AI Developer.
- ▶ Requirements Documentation/User Stories.
- ▶ Risk Identification, Response Plan and Risk Contingency Plan.
- ▶ Gantt Chart.
- ▶ Milestone 2 - Excel.
- ▶ Presentation

Burndown Chart

Iteration	Start Date	End Date	Targeted	Actual
Iteration 0	9/5/2023	9/12/2023	66	63
Iteration 1	9/12/2023	9/19/2023	63	52
Iteration 2	9/19/2023	9/26/2023	56	43
Iteration 3	9/26/2023	10/3/2023	33	28
Iteration 4	10/3/2023	10/10/2023	18	10
Pre release	10/10/2023	10/18/2023		

Targeted and Actual



Retrospective

Sprint	What went well ?	What needs improvement	Has Improved?	Owner
1	User Story Completion: The team successfully implemented personalized book recommendations and user engagement features as planned.	The test server should be established during iteration 0 to facilitate smooth testing processes	Y	Andrew Arlick
1	Prompt Issue Resolution: The team demonstrated effective problem-solving skills, promptly addressing issues and blockers, ensuring minimal disruptions to the workflow.	Communication During Stand-ups: While daily stand-ups improved visibility, there is a need to ensure they don't become in-depth status meetings. It's suggested to utilize "meet after" for deeper discussions, allowing stand-ups to remain focused on quick updates.	Y	Fengyun Chen
1	Collaboration: Team collaboration remained strong throughout the sprint. Team members actively participated in discussions, shared knowledge, and supported each other, fostering a positive work environment.	Approval for Requirements Changes: Although there was a strong commitment from sponsors and project champions, there were instances where final approval for requirements changes was pending before starting development work. Ensuring timely approvals will enhance project efficiency.	Y	Michael Nguyen
2	Ensure punctuality for our weekly discussions to maintain project momentum	Sprint Planning: Scheduling for full capacity during a sprint proved to limit the team's flexibility. Going forward, we should leave room for break-in work during sprint planning to handle unforeseen tasks or adjustments.	Y	Shubh Goyal

Deliverables Summary

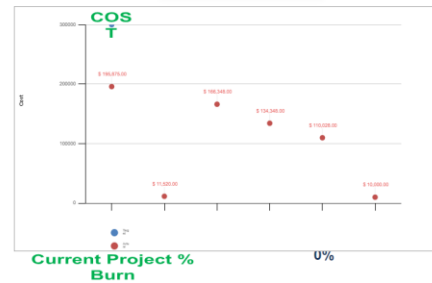
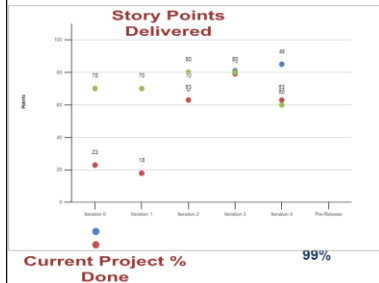
Deliverable/Document/Artifact	Description
Project Charter	A foundational document outlining the "Book Dino" project's purpose, objectives, stakeholders, and key details.
Vision/Elevator Statement	A brief summary articulating the main goals and benefits of the "Book Dino" project.
Scope Statement	Details what the "Book Dino" project will and will not include, defining its boundaries and deliverables.
Stakeholder Identification Plan	A list of individuals or entities with interest in the project, describing their roles and concerns.
Requirements Documentation	A list of expected functionalities and features for the "Book Dino" application.
Risk Identification, Response Plan, and Risk Contingency Plan	A strategy outlining potential project challenges, solutions, and backup plans.
Book Dino Gantt Chart	A visual tool displaying the project's timeline, tasks, and milestones.
Charter Approval	Formal endorsement signifying stakeholder agreement to proceed with the project.
Cost Estimation	A projection of the anticipated costs for the "Book Dino" project.
Agile Workbook	A management tool for tracking and iterating on the project using Agile methodologies.

Agile Overview for Book Dino Project

	Start	End	Targeted	Actual	Projected	Total Story Pts
Iteration 0	09/05/23	09/12/23	23	23	23	70
Iteration 1	09/12/23	09/19/23	18	18	18	70
Iteration 2	09/19/23	09/26/23	70	63	63	80
Iteration 3	09/26/23	10/03/23	81	79	79	80
Iteration 4	10/03/23	10/10/23	85	83	83	80
Pre-Release	10/10/23	10/18/23				

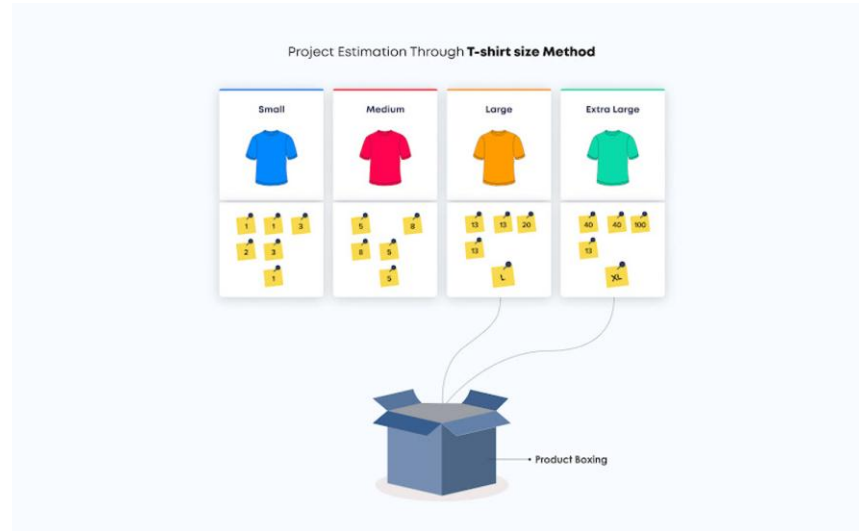
	Start	End	Targeted	Actual	Projected	Total Funding
Iteration 0	09/05/23	09/12/23	\$ 300,000.00			\$ 195,875.00
Iteration 1	09/12/23	09/19/23				\$ 11,520.00
Iteration 2	09/19/23	09/26/23				\$ 166,348.00
Iteration 3	09/26/23	10/03/23				\$ 134,348.00
Iteration 4	10/03/23	10/10/23				\$ 110,028.00
Pre-Release	10/10/23	10/18/23				\$ 10,000.00

(We can also create a burn up chart that would show actual business value using Business Value Points. Email me for more information: Sally@AgileTransformation.com)



- ▶ Agile aims to improve the adaptability of development to user needs.
- ▶ Allows iterative feedback and continuous improvement.
- ▶ Ensures that the user is at the center of the development process.
- ▶ Why Agile?
 - ▶ It ensures a user-centric approach to website development.
 - ▶ The iterative nature helps tackle complex requirements like those in our project.

Key User Stories & Agile Estimations



- ▶ "As a User, I want to easily search for books..." (5 points)
- ▶ "As a Developer, I need a database to store user data..." (8 points)
- ▶ Numbers in brackets indicate story points, an agile estimation method.

- User stories help us capture the exact needs of our users.
- Story points allow us to gauge the effort and complexity of each story.

Agile Milestones & Iterations

Setup Iteration				
STORIES	STORY POINTS	Owner	STORY GOAL	
			Target	Actual
1.1 As a User, I want to be able to easily search for books based on my preferences and interests so that I can find reading materials that align with my tastes.	5		Done	Not Done
1.2 As a User, I want the website to provide me with options for both physical and digital books, making it convenient for me to choose how I want to access my reading materials.	2		Done	Done
1.3 As a User, I want to have access to a variety of predefined search queries such as genre, author, and topic, allowing me to quickly explore different categories of books.	2		Done	Done
1.4 As a User, I want the website to support filtering my search results by reading level metrics like Scholastic guided reading levels and the Lexile system, making it easier for me to find books appropriate for my reading level or the level of a young reader.	5		Done	Done
1.5 As a User, I want to be able to create an account on the Book Dino website so that I can personalize my reading experience.	2		Done	Done
1.6 As a User, I want to receive personalized book recommendations based on my reading preferences.	5		Done	Done
Setup Iteration Story Points			Iteration	21
			Cumulative	16

► Our backlogs help us prioritize and organize user stories.

► Milestones/iterations guide our sprint structures, ensuring we deliver incrementally.

► Retrospectives allow us to reflect and improve after each sprint.

Tools for Effective Team Collaboration



- ▶ WhatsApp for Instant Messaging and Updates.
- ▶ Zoom for Team Meetings and Discussions.
- ▶ The key is not just the tools, but how effectively they're used.
- ▶ We should explore platforms like JIRA or Trello. These platforms can introduce structured task tracking, help in visualizing our backlogs, and streamline our work processes, potentially transforming our team communication and productivity."

Spyder

File Edit Search Source Run Debug Consoles Projects Tools View Help

C:\Users\Micha

...niversity\MSCIS May 2023-2025\Fall 2023\MET CS632 O1 REG - It Proj Mgmt\Week 6\Python Book Search.py

Python Book Search.py

```

1  # -*- coding: utf-8 -*-
2  """
3  Created on Sat Oct 14 08:43:11 2023
4
5  @author: Micha
6  """
7
8  # Sample database of AI books
9  books = [
10     {
11         'title': 'Artificial Intelligence: A Modern Approach',
12         'author': 'Stuart Russell, Peter Norvig',
13         'description': 'Comprehensive introduction to AI.',
14     },
15     {
16         'title': 'Deep Learning',
17         'author': 'Ian Goodfellow, Yoshua Bengio, Aaron Courville',
18         'description': 'In-depth coverage of deep learning techniques.',
19     },
20     {
21         'title': 'Reinforcement Learning: An Introduction',
22         'author': 'Richard S. Sutton, Andrew G. Barto',
23         'description': 'Introduction to reinforcement learning.',
24     },
25     {
26         'title': 'The Lightning Thief (Percy Jackson and the Olympians, Book 1)',
27         'author': 'Rick Riordan',
28         'description': 'Children Greek & Roman Books.',
29     },
30     # Add more books to the database as needed
31 ]
32
33 # Function to search for AI books
34 def search_ai_books(query):
35     results = []
36
37     for book in books:
38         # Check if the query matches any part of the book data (title, author, description)
39         if query.lower() in book['title'].lower() or query.lower() in book['author'].lower() or q
40             results.append(book)
41
42     return results
43
44 # Main program
45 while True:
46     user_query = input("Enter a search query (or 'q' to quit): ")
47
48     if user_query.lower() == 'q':
49         break
50
51     search_results = search_ai_books(user_query)
52
53     if not search_results:
54         print("No results found.")
55     else:
56         print("Search results:")
57         for idx, book in enumerate(search_results, start=1):
58             print(f"{idx}. Title: {book['title']}")
59             print(f"    Author: {book['author']}")
60             print(f"    Description: {book['description']}")

```

Variable Explorer

Var	Type	Size	Value
books	list	4	[{'title': 'Artificial Intelligence: A Modern Approach', 'author': 'Stuart Russell, Peter Norvig', 'description': 'Comprehensive introduction to AI.'}, {'title': 'Deep Learning', 'author': 'Ian Goodfellow, Yoshua Bengio, Aaron Courville', 'description': 'In-depth coverage of deep learning techniques.'}, {'title': 'Reinforcement Learning: An Introduction', 'author': 'Richard S. Sutton, Andrew G. Barto', 'description': 'Introduction to reinforcement learning.'}, {'title': 'The Lightning Thief (Percy Jackson and the Olympians, Book 1)', 'author': 'Rick Riordan', 'description': 'Children Greek & Roman Books.'}]

Console 1/A

```

Python 3.8.10 (tags/v3.8.10:3d8993a, May 3 2021, 11:48:03) [MSC v.1928 64 bit (AMD64)]
Type "copyright", "credits" or "license()" for more information.

IPython 8.12.2 -- An enhanced Interactive Python.

In [1]: runfile('C:/Users/Micha/OneDrive/Desktop/Boston University/MSCIS May 2023-2025/Fall 2023/MET
CS632 O1 REG - It Proj Mgmt/Week 6/Python Book Search.py', wdir='C:/Users/Micha/OneDrive/Desktop/
Boston University/MSCIS May 2023-2025/Fall 2023/MET CS632 O1 REG - It Proj Mgmt/Week 6')
Enter a search query (or 'q' to quit): the lightning thief
Search results:
1. Title: The Lightning Thief (Percy Jackson and the Olympians, Book 1)
   Author: Rick Riordan
   Description: Children Greek & Roman Books.
Enter a search query (or 'q' to quit):

```

Python Console History Terminal

Spyder: Checking for updates ... internal (Python 3.8.10) Completions: internal LSP: Python Line 16, Col 1 UTF-8 CRLF RW Mem 36%

Gantt Chart Overview



36 days progression in making Book Dino



Cost estimation is \$300,000 vs. Actual Cost is \$184,608.18



Remaining Cost \$189,135.07



Four of us has worked 1,146.88 hours in 36 days (6 Weeks)



Our projected break-even analysis is within 2 years; however, it was different than anticipated by \$84,608.18



What went well is that it was cheaper to create Book Dino than we thought



What didn't went well was the amount of time we spent to create Book Dino and the algorithm of python to make the basic search engine worked

Project WBS - Project Professional

File Task Resource Report Project View Help **Timeline Format** Tell me what you want to do

Text Styles: Segoe UI, 8, Bold, Italic, Underline, Color, Background Color, Text

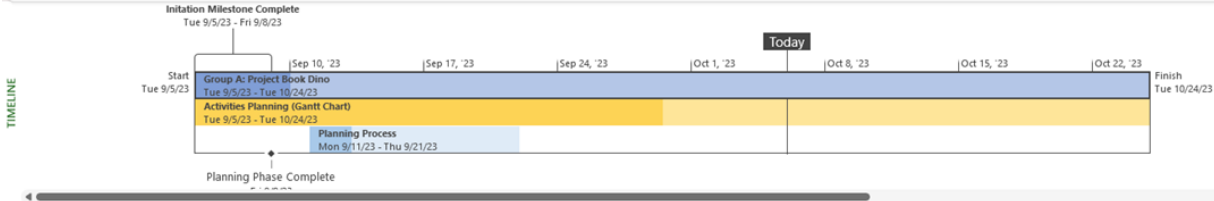
Font: Segoe UI, 8, Bold, Italic, Underline, Color, Background Color, Text

Timeline: Timeline

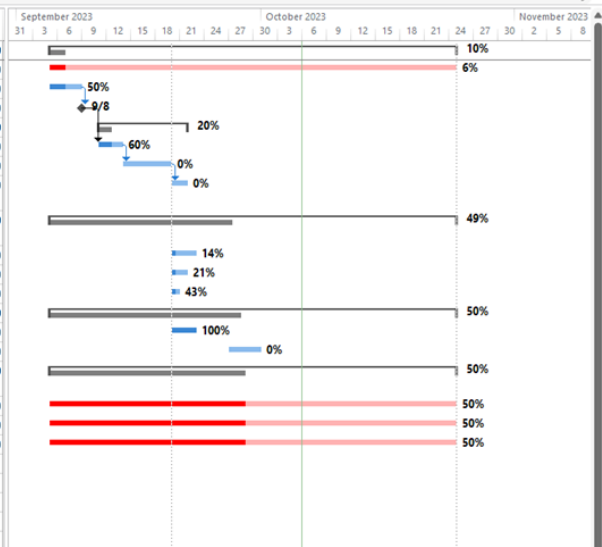
Overlapped Tasks, Pan & Zoom, Text Lines: 1

Timeline Existing Tasks, Task, Callout, Milestone, Display as Bar, Display as Callout, Remove from Timeline, Copy Timeline, Copy

Show/Hide, Insert, Current Selection, Switch Timeline



Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Names	% Complete	Cost
1	Group A: Project Book Dino	36 days	Tue 9/5/23	Tue 10/24/23		Michael Nguyen, Andrew Arlick, Fengyun Chen, Shubh Goyal,	10%	\$195,875.20
2	Initiation Process	36 days	Tue 9/5/23	Tue 10/24/23			6%	\$0.00
3	Initiation Milestone Complete	4 days	Tue 9/5/23	Fri 9/8/23			50%	\$0.00
4	Planning Phase Complete	0 days	Fri 9/8/23	Fri 9/8/23	3		0%	\$0.00
5	Planning Process	9 days	Mon 9/11/23	Thu 9/21/23		Michael Nguyen, Andrew Arlick, Fengyun Chen, Shubh Goyal	20%	\$11,520.00
6	Project Scope	3 days	Mon 9/11/23	Wed 9/13/23	4		60%	\$0.00
7	Project User Stories	4 days	Thu 9/14/23	Tue 9/19/23	6		0%	\$0.00
8	Outline Life cycle and Development Approach	2 days	Wed 9/20/23	Thu 9/21/23	7		0%	\$0.00
9	Activities Planning (Gantt Chart)	36 days?	Tue 9/5/23	Tue 10/24/23		Michael Nguyen, Andrew Arlick, Fengyun Chen, Shubh Goyal	49%	\$166,348.00
10	User Define Activities	3 days	Wed 9/20/23	Fri 9/22/23			14%	\$0.00
11	Sequence of Activities	2 days	Wed 9/20/23	Thu 9/21/23			21%	\$0.00
12	Activities Implementation	1 day	Wed 9/20/23	Wed 9/20/23			43%	\$0.00
13	Break Even Analysis	36 days?	Tue 9/5/23	Tue 10/24/23		Michael Nguyen, Andrew Arlick, Fengyun Chen, Shubh Goyal	50%	\$134,348.00
14	Developing Cost Plannin	3 days	Wed 9/20/23	Fri 9/22/23			100%	\$0.00
15	Developing Cost Budge	3 days	Wed 9/27/23	Sat 9/30/23			0%	\$0.00
16	System Purchase (Server)	36 days?	Tue 9/5/23	Tue 10/24/23			50%	\$110,028.00
17	Server Installation	36 days?	Tue 9/5/23	Tue 10/24/23			50%	\$10,000.00
18	System Integration	36 days?	Tue 9/5/23	Tue 10/24/23			50%	\$15.00
19	Training	36 days?	Tue 9/5/23	Tue 10/24/23			50%	\$13.00



File Task Resource Reports Project View Help Task Usage Formula Help

Clipboard: Paste, Copy, Format Painter

Font: Calibri, 11, Bold, Italic, Underline, Color, Background Color

Schedule: Mark on Track, Respect Links, Inactivate, Manually Schedule, Auto Schedule

Tasks: Inspect, Move, Mode

Insert: Task, Summary, Milestone, Deliverable

Information: Notes, Details, Add to Timeline

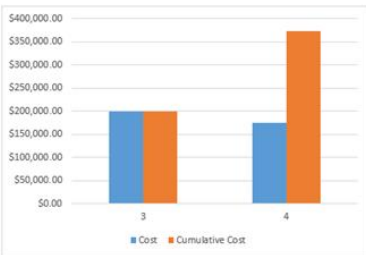
Editing: Find, Clear, Fill

Task Mode	Task Name	Work	Duration	Start	Finish	Details	F	S	Sep 10, 23	S	M	T	W	T	F	S	Sep 17, 23
1	Group A: Project Boo	1,146.88 hrs	36 days	Tue 9/5/23	Tue 10/24/23	Work	32h					32h	32h	32h	32h	32h	
	Michael Nguyen	286.72 hrs		Tue 9/5/23	Tue 10/24/23	Work	8h					8h	8h	8h	8h	8h	
	Andrew Arlick	286.72 hrs		Tue 9/5/23	Tue 10/24/23	Work	8h					8h	8h	8h	8h	8h	
	Fengyun Chen	286.72 hrs		Tue 9/5/23	Tue 10/24/23	Work	8h					8h	8h	8h	8h	8h	
	Shubh Goyal	286.72 hrs		Tue 9/5/23	Tue 10/24/23	Work	8h					8h	8h	8h	8h	8h	
	Book Dino			Tue 9/5/23	Tue 10/24/23	Work											
2	Initiation Process	0 hrs	36 days	Tue 9/5/23	Tue 10/24/23	Work											
3	Initation Mileston	0 hrs	4 days	Tue 9/5/23	Fri 9/8/23	Work											
4	Planning Phase Co	0 hrs	0 days	Fri 9/8/23	Fri 9/8/23	Work											
5	Planning Process	288 hrs	9 days	Mon 9/11/23	Thu 9/21/23	Work					32h	32h	32h	32h	32h		
	Michael Nguyen	72 hrs		Mon 9/11/23	Thu 9/21/23	Work					8h	8h	8h	8h	8h		
	Andrew Arlick	72 hrs		Mon 9/11/23	Thu 9/21/23	Work					8h	8h	8h	8h	8h		
	Fengyun Chen	72 hrs		Mon 9/11/23	Thu 9/21/23	Work					8h	8h	8h	8h	8h		
	Shubh Goyal	72 hrs		Mon 9/11/23	Thu 9/21/23	Work					8h	8h	8h	8h	8h		
6	Project Scope	0 hrs	3 days	Mon 9/11/23	Wed 9/13/23	Work											
7	Project User Storie	0 hrs	4 days	Thu 9/14/23	Tue 9/19/23	Work											
8	Outline Life cycle	0 hrs	2 days	Ned 9/20/23	Thu 9/21/23	Work											
9	Activities Planning (C	1,408 hrs	36 days?	Tue 9/5/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Michael Nguyen	200 hrs		Wed 9/20/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Andrew Arlick	200 hrs		Wed 9/20/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Fengyun Chen	200 hrs		Wed 9/20/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Shubh Goyal	200 hrs		Wed 9/20/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
10	User Define Activi	0 hrs	3 days	Ned 9/20/23	Fri 9/22/23	Work											
11	Sequence of Activ	0 hrs	2 days	Ned 9/20/23	Thu 9/21/23	Work											
12	Activities Implem	0 hrs	1 day	Ned 9/20/23	Ned 9/20/23	Work											
13	Break Even Analay	608 hrs	36 days?	Tue 9/5/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Michael Nguy	152 hrs		Thu 9/28/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Andrew Arlick	152 hrs		Thu 9/28/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Fengyun Chen	152 hrs		Thu 9/28/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
	Shubh Goyal	152 hrs		Thu 9/28/23	Tue 10/24/23	Work	0h				0h	0h	0h	0h	0h	0h	
14	Developing Cos	0 hrs	3 days	Ned 9/20/23	Fri 9/22/23	Work											
15	Developing Cos	0 hrs	3 days	Ned 9/27/23	Sat 9/30/23	Work											
16	System Purchas	0 hrs	36 days?	Tue 9/5/23	Tue 10/24/23	Work											
17	Server Install	0 hrs	36 days?	Tue 9/5/23	Tue 10/24/23	Work											
18	System Integ	0 hrs	36 days?	Tue 9/5/23	Tue 10/24/23	Work											
19	Training	0 hrs	36 days?	Tue 9/5/23	Tue 10/24/23	Work											

Resource Name	Type	Material	Initials	Group	Max.	Std. Rate	Ovt. Rate	Cost/Use	Accrue At	Base Calendar	Cost	Add New Column
Michael Nguyen	Work		M		100%	\$40.00/hr	\$60.00/hr	\$0.00	Prorated	Standard	\$28,428.80	
Andrew Arlick	Work		A		100%	\$40.00/hr	\$60.00/hr	\$0.00	Prorated	Standard	\$28,428.80	
Fengyun Chen	Work		F		100%	\$40.00/hr	\$60.00/hr	\$0.00	Prorated	Standard	\$28,428.80	

CASH FLOW

Actual Cost	Baseline Cost	Remaining Cost	Cost Variance
\$184,608.13	\$0.00	\$189,135.07	\$373,743.20

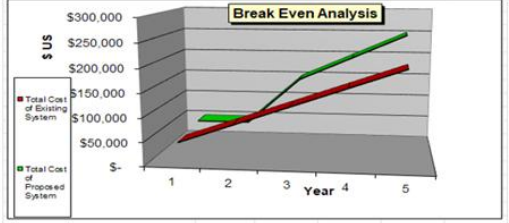


The chart shows the project's cumulative cost and the cost per quarter. To see the costs for a different time period, select the Edit option from the Field List.

The table below shows cost information for all top-level tasks. To see cost stats for all tasks, set the Outline Level in the Field List.

Name	Remaining Cost	Actual Cost	Cost	ACWP	BCWP	BCWS
Group A: Project Book Dino	\$41,287.73	\$154,587.47	\$195,875.20	\$0.00	\$0.00	\$0.00
Planning Process	\$9,216.00	\$2,304.00	\$11,520.00	\$0.00	\$0.00	\$0.00
Activities Planning (Gantt Chart)	\$138,631.33	\$27,716.67	\$166,348.00	\$14.00	\$0.00	\$0.00

Break Even Analysis					
Costs of Existing System	Year 1	Year 2	Year 3	Year 4	Year 5
Development costs	\$ 40,000	\$ 80,000	\$ 120,000	\$ 160,000	\$ 200,000
Additional hardware	\$ 10	\$ 30	\$ 50	\$ 70	\$ 90
Operation costs	\$ 10	\$ 20	\$ 30	\$ 40	\$ 50
User time during development	\$ -	\$ -	\$ -	\$ -	\$ 20
Maintenance costs	\$ 4	\$ 8	\$ 12	\$ 16	\$ 20
Total Cost of Existing System	\$ 40,024	\$ 80,058	\$ 120,092	\$ 160,126	\$ 200,160
Costs of Proposed System	Year 1	Year 2	Year 3	Year 4	Year 5
Development costs	\$ 50,000	\$ 50,000	\$ 150,000	\$ 200,000	\$ 250,000
Additional hardware	\$ 5	\$ 10	\$ 15	\$ 20	\$ 25
Operation costs	\$ 10	\$ 20	\$ 30	\$ 40	\$ 50
User time during development	\$ 10	\$ 10	\$ 20	\$ 20	\$ 30
Maintenance costs	\$ -	\$ 15	\$ 4	\$ 4	\$ 4
Total Cost of Proposed System	\$ 50,025	\$ 50,055	\$ 150,069	\$ 200,084	\$ 250,109



RESOURCE SHEET

Resource Name	Type	Material	Initials	Group	Max.	Std. Rate	Ovt. Rate	Cost/Use	Accrue	Base	Cost	Add New Column
1 Michael Nguyen	Work		M		100%	\$40.00/hr	\$60.00/hr	\$0.00	Prorated	Standard	\$28,428.80	
2 Andrew Arlick	Work		A		100%	\$40.00/hr	\$60.00/hr	\$0.00	Prorated	Standard	\$28,428.80	
3 Fengyun Chen	Work		F		100%	\$40.00/hr	\$60.00/hr	\$0.00	Prorated	Standard	\$28,428.80	
4 Shubb Goyal	Work		S		100%	\$40.00/hr	\$60.00/hr	\$0.00	Prorated	Standard	\$28,428.80	
5 Book Dino	Cost		B							Start	\$150,000.00	
6 Server	Cost		S							End	\$0.00	
7 Server Installation	Cost		S							End	\$0.00	
8 Training	Work		T		100%	\$13.00/hr	\$19.50/hr	\$0.00	Prorated	Standard	\$0.00	

Lessons Learned

- ▶ When creating the project documents in the future we would take the extra time at the beginning to combine all of the documentation in a single document to prevent trying to do it later on in the process
- ▶ The team would be proactive in assisting each other in our goals and tasks rather than focusing our individual objectives in isolation
- ▶ We would attempt to be more ambitious with some of our goals, as we accomplished our current many of our goals faster than expected
 - ▶ As depicted in our burndown chart

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