ConnectEZ – Online Virtual Phone System

WBS, PERT, GANTT AND SCHEDULES

1.0.0

October 27, 2023

Team Cosmos

VERSION HISTORY

Version #	Implemented By	Revision Date	Approved By	Approval Date	Reason
1.0	Bhautik Sojitra, Kabir Bhakta, Yirong Wang, Vrushil Patel, Heejeong Kim	10/27/2023	Group	10/27/23	Initial Version

Name	Email	Period of being project manager
Kabir Bhakta	bhaktakb@myumanitoba.ca	
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Heejeong Kim	kimh4@myumanitoba.ca	Oct 14, 2023 – Oct 27, 2023
Vrushil Patel	patelvk1@myumanitoba.ca	Sept 30, 2023 – Oct 13, 2023

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1. Project Planning and Organization

1.1 Task Breakdown and Time Estimation

Task	Optimistic (Days)	Most Likely (Days)	Pessimistic (Days)
Project Initialization and Planning Phase			
Project Scope	6	8	10
Project Objectives	4	5	7
Project Charter	6	8	10
Approved Project Management Plan	7	9	12
Design Phase			
Design Security Protocols	22	30	38
Database Design	22	30	38
UI/UX Design	22	30	38
Application Development			
System UI	30	40	50
Security Protocols	15	20	25
Dialing Plan	30	40	50
Call Processing	15	20	25
Account Management	30	40	50
Billing			
Billing Integration	30	40	50
Billing Automation	30	40	50
Billing Report	30	40	50
Training and Customer Service Setup			
Training Sessions	12	15	19
Training Materials	12	15	19
Helpdesk Setup	15	20	25
Testing Phase			
Unit Testing	22	30	38
Integration Testing	30	40	50

User Acceptance Testing	30	40	50
Finalization and Documentation			
Project Documentation	15	20	25
Financial Report	15	20	25
Final Review	15	20	25

1.2 Resources

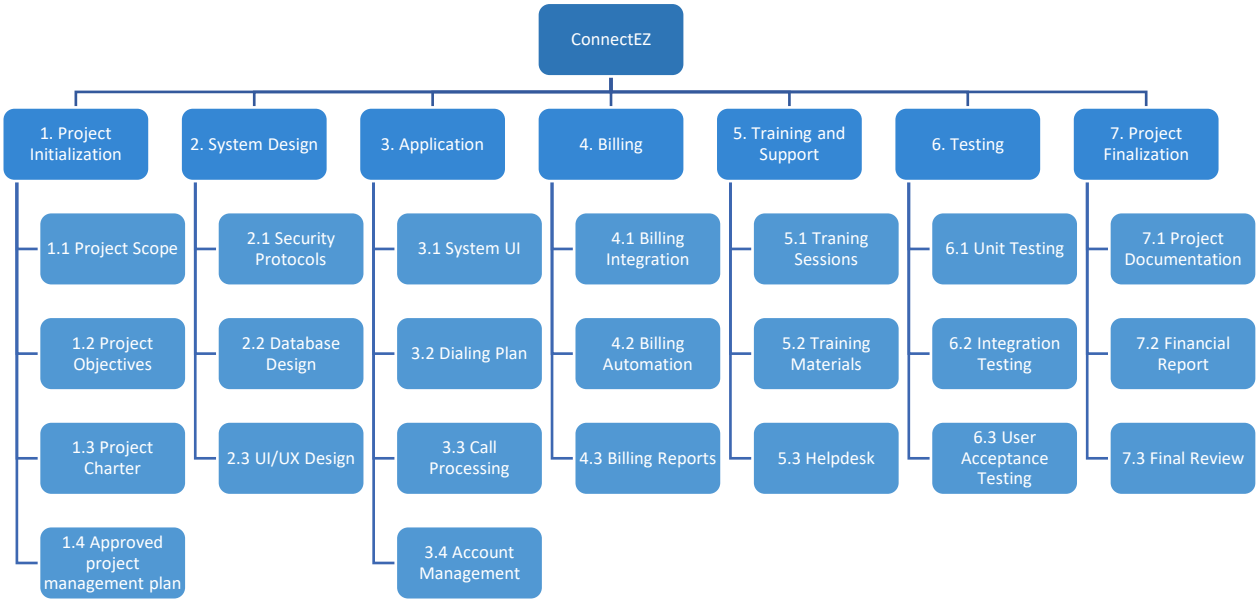
Task	Resources
Project Initialization and Planning Phase	
Project Scope	Stakeholder, Project Manager
Project Objectives	Stakeholder, Project Manager
Project Charter	Project Manager
Approved Project Management Plan	Project Manager
Design Phase	
Design Security Protocols	Security Analyst
Database Design	Database Analyst
UI/UX Design	UI Designer, UX Designer
Application Development	
System UI	Graphic Designer
Security Protocols	Security Analyst
Dialing Plan	Telecommunications Specialist
Call Processing	Telecommunications Specialist
Account Management	System Analyst
Billing	
Billing Integration	System Analyst
Billing Automation	System Analyst
Billing Report	Financial Analyst
Training and Customer Service Setup	
Training Sessions	Training Specialist

Training Materials	Technical Writer
Helpdesk Setup	Helpdesk Coordinator
Testing Phase	
Unit Testing	Test Manager
Integration Testing	Test Manager
User Acceptance Testing	Test Manager, End Users
Finalization and Documentation	
Project Documentation	Technical Writer
Financial Report	Financial Analyst
Final Review	Project Manager, Stakeholder

1.3 Role Distribution

	Kim, Heejeong	**Bhakta, Kabir**	**Wang, Yirong**	**Sojitra, Bhautik Mansukh**	**Patel,Vrushil Kiritkumar**
Task 1	Scope	Security Protocols	UI/UX Design	Call Processing	Training Sessions
Task 2	Objectives	Database Design	System UI	Account Management	Training Materials
Task 3	Charter	Design Protocols	Dialing Plan	Billing Automation	Documentation
Task 4	Approved Plan	Billing Integration	User Acceptance Test	Integration Test	Financial Report
Task 5	Final Review	Unit Testing		Helpdesk Setup	

2. WBS



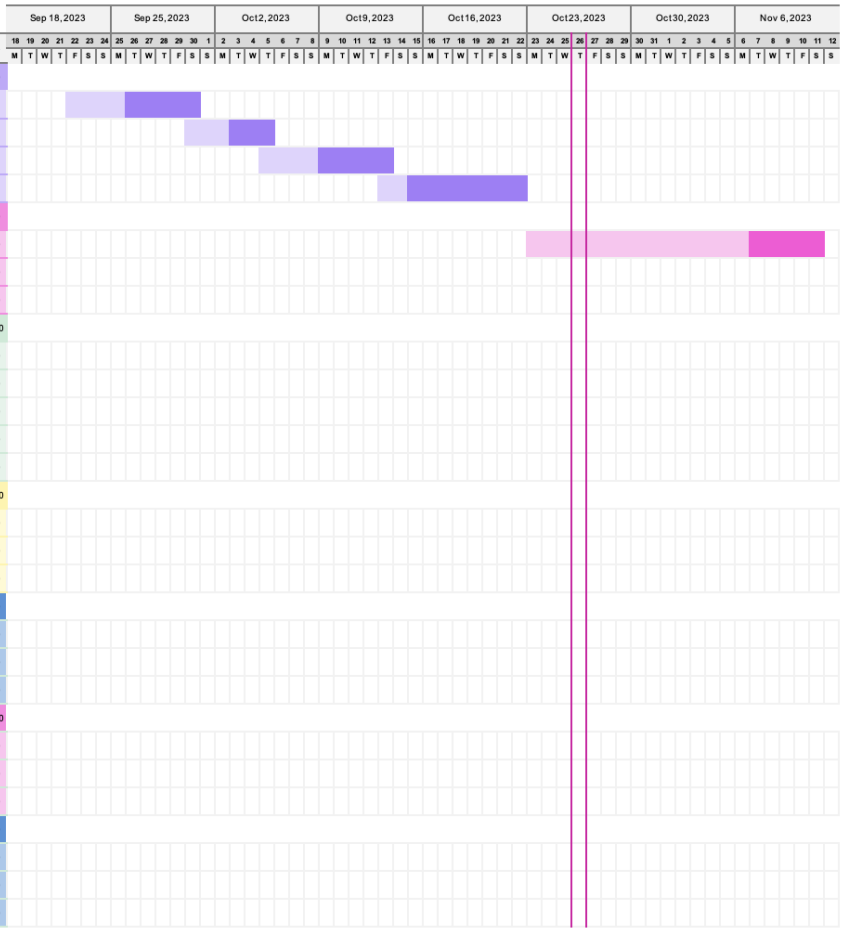
3. Gantt Chart

ConnectEZ

Online Virtual Phone System

Project start: Fri, 9-22-2023

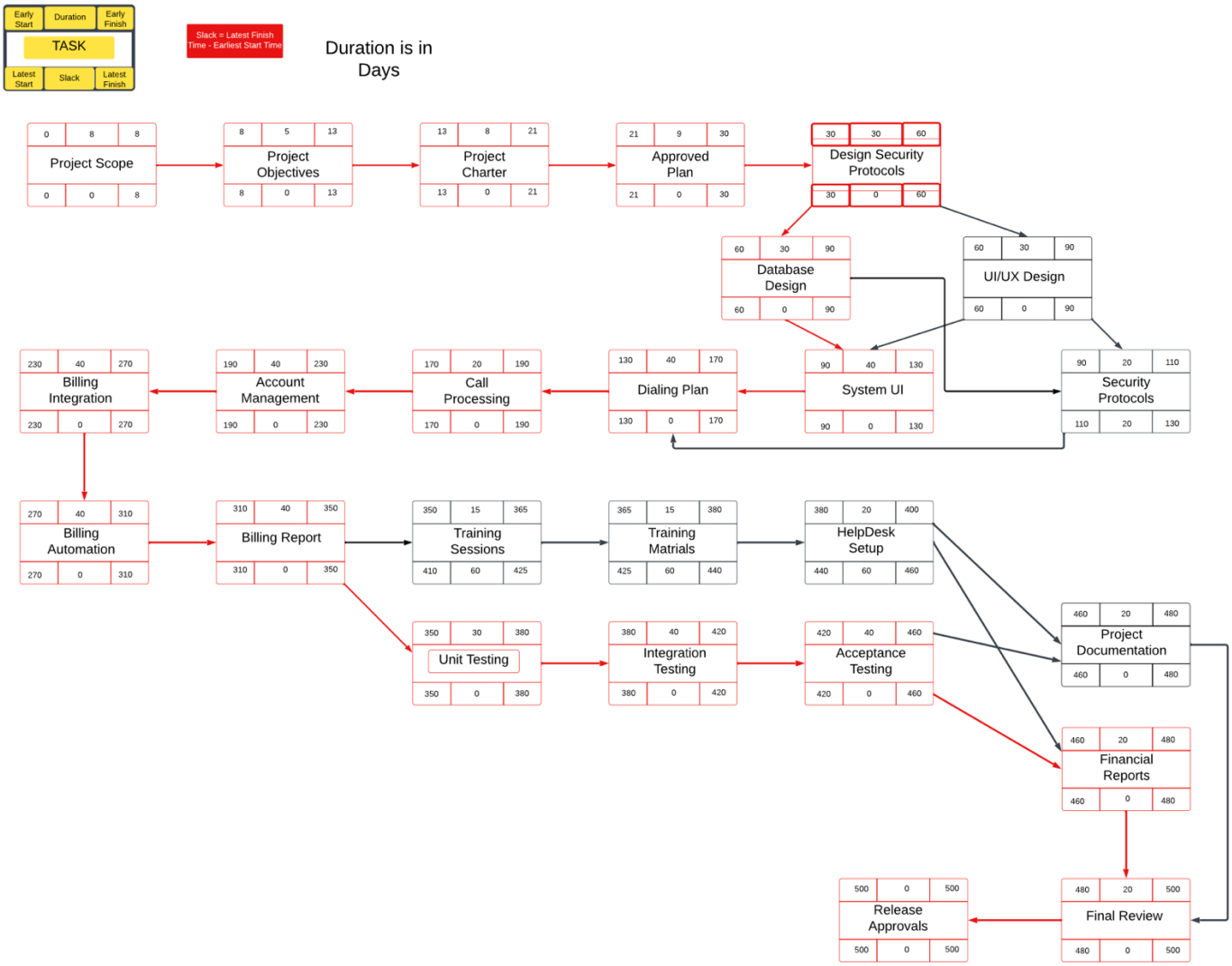
Display week: 1



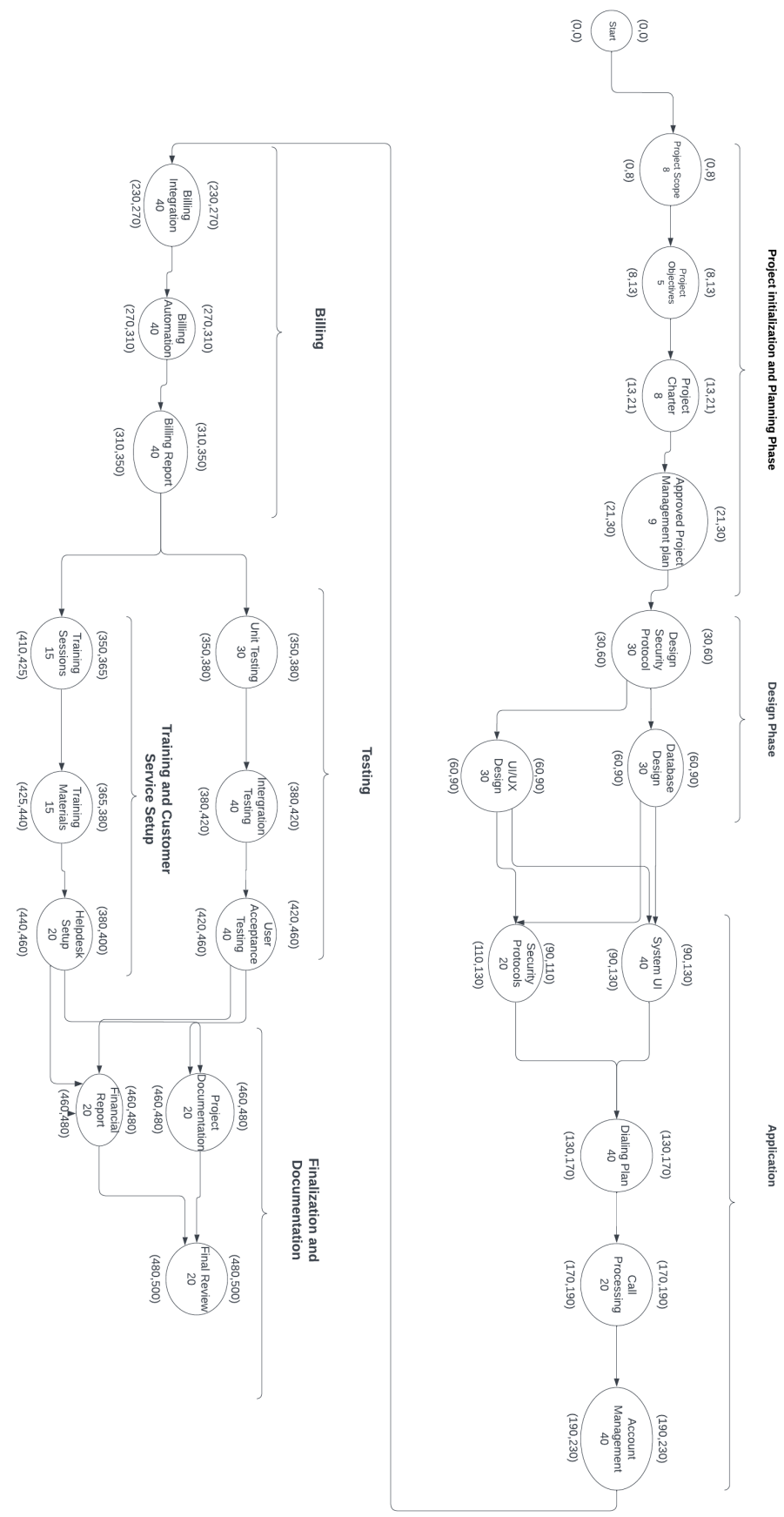
TASK	ASSIGNED TO	START	END	Days
Project Initialization				30.00
Project Scope	Kim, Heejeong	9-22-23	9-30-23	8.00
Project Objectives	Kim, Heejeong	9-30-23	10-5-23	5.00
Project Charter	Kim, Heejeong	10-5-23	10-13-23	8.00
Project Management Plan Approval	Kim, Heejeong	10-13-23	10-22-23	9.00
Design Phase				60.00
Security Protocols Design	Bhakta, Kabir	10-23-23	11-22-23	30.00
Database Design	Bhakta, Kabir	11-22-23	12-22-23	30.00
UI/UX Design	Wang, Yirong	11-22-23	12-22-23	30.00
Application Development				140.00
System UI	Wang, Yirong	12-23-23	2-1-24	40.00
Security Protocols	Bhakta, Kabir	12-23-23	1-12-24	20.00
Dialing Plan	Wang, Yirong	2-1-24	3-12-24	40.00
Call Processing	Sojitra, Bhautik Mansı	3-12-24	4-1-24	20.00
Account Management	Sojitra, Bhautik Mansı	4-1-24	5-11-24	40.00
Billing				120.00
Billing Integration	Bhakta, Kabir	5-12-24	6-21-24	40.00
Billing Automation	Sojitra, Bhautik Mansı	6-21-24	7-31-24	40.00
Billing Report	Patel, Vrushil Kirikum	7-31-24	9-9-24	40.00
Training and Customer Service Setup				50.00
Training Sessions	Patel, Vrushil Kirikum	9-10-24	9-25-24	15.00
Training Materials	Patel, Vrushil Kirikum	9-25-24	10-10-24	15.00
Manage resources	Sojitra, Bhautik Mansı	10-10-24	10-30-24	20.00
Testing				110.00
Unit Testing	Bhakta, Kabir	9-10-24	10-10-24	30.00
Integration Testing	Sojitra, Bhautik Mansı	10-10-24	11-19-24	40.00
User Acceptance Testing	Wang, Yirong	11-19-24	12-29-24	40.00
Finalization and Documentation				40.00
Project Documentation	Patel, Vrushil Kirikum	12-30-24	1-19-25	20.00
Financial Report	Patel, Vrushil Kirikum	12-30-24	1-19-25	20.00
Final Review	Kim, Heejeong	1-19-25	2-8-25	20.00
Total Estimated Time		**500**	**Days**	

4. PERT

Critical Path: Project Scope -> Project Objectives -> Project Charter -> Approved Plan -> Design Security Protocols -> Database Design -> System UI -> Dialing Plan -> Call Processing -> Account Management -> Billing Integration -> Billing Automation -> Billing Report -> Unit Testing -> Integration Testing -> Acceptance Testing -> Financial Report -> Final Review -> Release Approvals



5. CPA


Project initialization and Planning Phase
Design Phase
Application
Billing
Testing
Training and Customer Service Setup
Finalization and Documentation
Start
(0,0)
(0,0)
Project Scope 8
(0,8)
(0,8)
Project Objectives 5
(8,13)
(8,13)
Project Charter 8
(13,21)
(13,21)
Approved Project Management plan 9
(21,30)
(21,30)
Design Security Protocol 30
(30,60)
(30,60)
Database Design 30
(60,90)
(60,90)
UI/UX Design 30
(60,90)
(60,90)
Security Protocols 20
(90,110)
(110,130)
System UI 40
(90,130)
(90,130)
Dialing Plan 40
(130,170)
(130,170)
Call Processing 20
(170,190)
(170,190)
Account Management 40
(190,230)
(190,230)
Billing Integration 40
(230,270)
(230,270)
Billing Automation 40
(270,310)
(270,310)
Billing Report 40
(310,350)
(310,350)
Unit Testing 30
(350,380)
(350,380)
Intergration Testing 40
(380,420)
(380,420)
User Acceptance Testing 40
(420,460)
(420,460)
Training Sessions 15
(350,365)
(410,425)
Training Materials 15
(365,380)
(425,440)
Helpdesk Setup 20
(380,400)
(440,460)
Financial Report 20
(460,480)
(460,480)
Project Documentation 20
(460,480)
(460,480)
Final Review 20
(480,500)
(480,500)