

Advise System Requirements

The proposed advising system will:

- Adhere to the predetermined vision and scope
- Require executive sponsorship
- Operate within approved budget
- Run on premise on Linux-based operating systems
- Run on virtualized infrastructure
- Utilize an Oracle database as its back-end repository
- Utilize ASP.NET as its front-end user/application interface
- Allow users to log in locally initially (future versions to allow unified organizational credentials or SSO)
- Utilize configurable role-based security to provide proper access while restricting access to unauthorized individuals necessary
- Utilize a High-Availability solution by utilizing multiple application servers and hardware load balancing
- Allow data to be input manually or uploaded via comma-separated value (CSV) file (later versions to integrate with Student Information System (SIS) to reduce the management workload

Database structure will:

- Be a relational database design with tables for storing users, courses, academic history, program requirements while utilizing primary/foreign key relationships for referential integrity

User interface will provide the ability for:

- Users to log in
- Administrators to customize the system to meet the organization's branding requirements
- Administrators to create roles for use within the role-based security framework
- Administrators to input or upload information (students, instructors, course data, academic history, program requirements)
- Users to see current course data as well as academic history
- Student users to review his/her academic history
- Student users to compare his/her academic history (along with current course load) to his/her program/degree requirements
- Student users to export the degree requirements and/or comparison reports
- Advisors to find students
- Advisors to find the program requirements for the program/degree in question
- Advisors to review a student's academic history
- Advisors to compare a student's academic history (along with current course load) to the student's program/degree requirements
- Functional administrators (Registrars) to create, view, and edit program/degree requirements
- Functional administrators (Registrars) to create, view, and edit term definitions
- Functional administrators (Registrars) to view all students and their information
- All users to perform a "What-If" analysis to compare proposed course schedules against program/degree requirements
- Users to access help features and contact appropriate help personnel from within the software

Documentation will:

- Provide information regarding the database schema and database/application servers
- Provide information regarding all the aforementioned user interface abilities
- Be provided to users via a web site for convenient access and update capabilities

Testing procedure will:

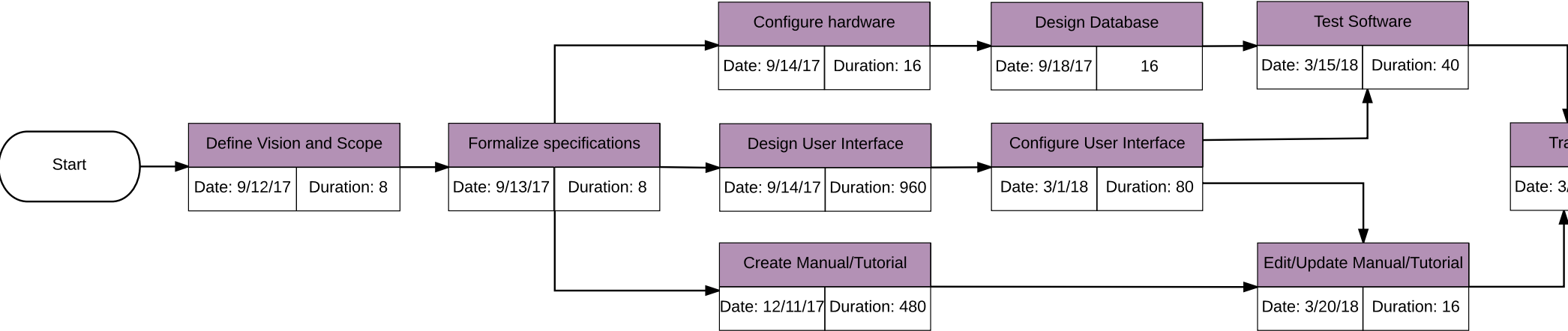
- Train support staff
- Develop training specification and train using appropriate method

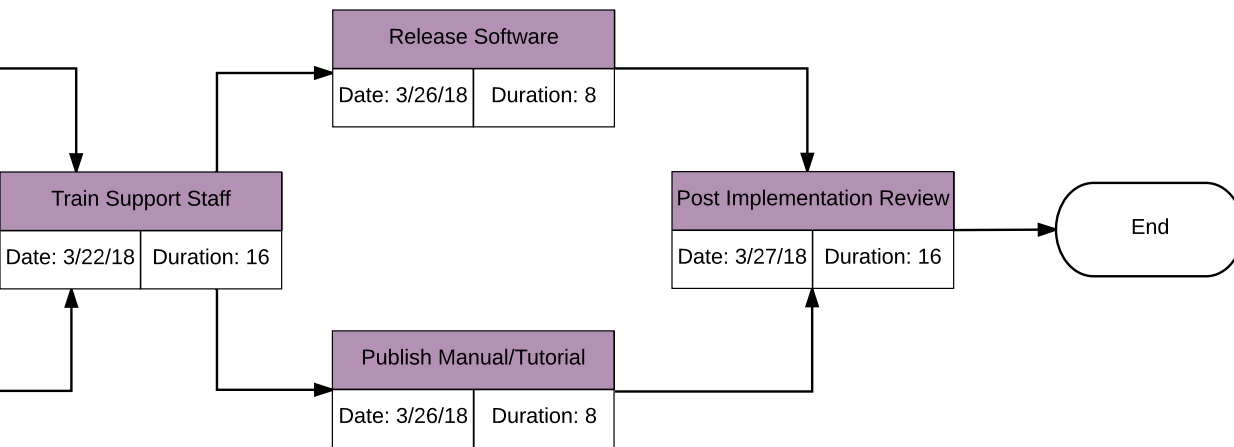
Software Release task will:

- Identify pilot group
- Train pilot group with appropriate method
- Obtain user feedback
- Release to whole organization
































Post Implementation will:































- Gather feedback from organization
- Gather feedback from helpdesk
- Document lessons learned
- Document issues to maintenance team































*Duration is in man-hours

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
1			Define Vision and Scope	8 hrs	Tue 9/12/17	Tue 9/12/17	
2			Determine Project Scope				
3			Secure project sponsorship				
4			Formalize Specifications	8 hrs	Wed 9/13/17	Wed 9/13/17	1
5			Determine hosted vs on prem				
6			Determine hardware Operating System (if on prem)				
7			Select Database Type/Vendor				
8			Select User Interface (UI) programming language				
9			Determine UI Functionality Requirements				
10			Determine UI Login Requirements				
11			Determine UI security requirements				
12			Determine High Availability (HA) requirements				
13			Obtain necessary approvals				
14			Develop preliminary budget				
15			Configure hardware	16 hrs	Thu 9/14/17	Fri 9/15/17	4
16			Configure Virtual Machine (VM) for database				
17			Configure VM for application				
18			Design database	16 hrs	Mon 9/18/17	Tue 9/19/17	15
19			Create database structure				
20			Design User Interface	960 hrs	Thu 9/14/17	Wed 3/14/18	4
21			Design Login Screen				
22			Design System Admin Interface				
23			Design Interface for inputting/editing/uploading student/instructor data				
24			Design Interface for customizing/branding advising system				
25			Design Advisor Interface				
26			Design Advisee Interface				
27			Design Help system methodology				
28			Design Functional Admin (Registrar Interface)				
29			Design Interface for inputting term definition				
30			Design Interface for inputting program/degree requirements				

ID	 Task Mode	Task Name	Duration	Start	Finish	Predecessors
31	 ?	Design Interface for inputting/editing/uploading course data				
32	 ?	Design Interface for inputting/editing/uploading student academic history				
33		Configure User Interface	80 hrs	Thu 3/1/18	Wed 3/14/18	20
34	 ?	Configure Admin Interface				
35	 ?	Configure site to meet organization's branding requirements				
36	 ?	Configure/Upload Course data				
37	 ?	Configure/Upload student/instructor data				
38	 ?	Configure program/degree requirements				
39	 ?	Configure/Upload student academic history				
40		Create Manuals/Tutorials	480 hrs	Mon 12/11/17	Tue 3/13/18	4
41	 ?	Describe how to log in				
42	 ?	Describe basic navigation techniques				
43	 ?	Describe how to upload images and customize/brand site				
44	 ?	Describe how to select and find program requirements informat				
45	 ?	Describe how to find student info				
46	 ?	Describe how to find student				
47	 ?	Describe how to contact student				
48	 ?	Describe how to find student current course list				
49	 ?	Describe how to find student historical academic information				
50	 ?	Describe how to compare program requirements to academic history (including current course list)				
51	 ?	Describe how to export advisee information				
52		Test Software	40 hrs	Thu 3/15/18	Wed 3/21/18	33,15
53		Develop test plans using project specifications	1 day	Thu 3/15/18	Thu 3/15/18	
65		Identify anomalies to product specifications	0 days	Sat 9/9/17	Sat 9/9/17	
66	 ?	Correct anomalies and retest				
67		Edit/Update Manuals/Tutorials	16 hrs	Tue 3/20/18	Wed 3/21/18	40,33
68	 ?	Finalize helpdesk documentation				
69	 ?	Finalize help system				
70	 ?	Finalize user manuals				

ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors
71			Train Support staff	16 hrs	Thu 3/22/18	Fri 3/23/18	67,52
72			Identify training delivery method				
73			Develop training specifications for end users				
74			Develop training specifications for support staff				
75			Develop training materials				
76			Conduct Training				
77			Release Software	8 hrs	Mon 3/26/18	Mon 3/26/18	71
78			Pilot Group Release	1 day	Thu 3/22/18	Thu 3/22/18	
79			Identify pilot group				
80			Identify training delivery method				
81			Conduct Training				
82			Release software to pilot group				
83			Obtain user feedback				
84			Evaluate pilot group feedback				
85			Organization-wide release	1 day	Thu 3/22/18	Thu 3/22/18	
86			Release software to organization				
87			Provide support contact information for individuals needing h				
88			Release Manuals/Tutorials	8 hrs	Mon 3/26/18	Mon 3/26/18	71
89			Provide access to manuals/tutorials to necessary individuals in the organization				
90			Post Implementation Review	16 hrs	Tue 3/27/18	Wed 3/28/18	77,88
91			Gather feedback from organization				
92			Gather feedback from helpdesk support				
93			Designate software maintenance team				
94			Document lessons learned				
95			Document issues and report to software maintenance team				

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