Office of Software Development Code A. 199 days Sopo Sopo Code AA. 3.5 days Mon 4/1/19 The 1/1/12 The 1/1/12 The 1/1/19 Provided Provi		Task Name	WBS	Duration	Start	Finish	Predecessors
1 Scope							11000003
Determine project scope		-					
Secure project sponsorship Code AA-b 1 day Mon 4/3/19 Tue 4/2/19 2		-		-			
Define preliminary resources							2
Secure core resources	3	Secure project sponsorship	Code AA-b	1 uay	WION 4/1/19	Tue 4/2/19	Z
Scope complete	4	Define preliminary resources	Code AA-c	1 day	Tue 4/2/19	Wed 4/3/19	3
Review preliminary software code AB		Secure core resources	Code AA-d	1 day	Wed 4/3/19		
Conduct needs analysis Code AB-a S days	6	Scope complete	Code AA-e	0 days	Thu 4/4/19	Thu 4/4/19	5
Draft preliminary software specifications Develop preliminary budget Code AB-b 2 days Tue 4/16/19 Tue 4/16/19 Put 4/18/19 Put	7	Analysis/Software Requirements	Code AB	14 days	Thu 4/4/19	Wed 4/24/19	
Draft preliminary software specifications Develop preliminary budget Code AB-b 2 days Tue 4/16/19 Tue 4/16/19 Put 4/18/19 Put	8	Conduct needs analysis	Code AB-a	5 days	Thu 4/4/19	Thu 4/11/19	6
Develop preliminary budget	9	Draft preliminary software	Code AB-b		Thu 4/11/19	Tue 4/16/19	8
	10		Code AB-c	2 days	Tue 4/16/19	Thu 4/18/19	9
Software specifications Develop delivery timeline Code AB-f 1 day Mon 4/22/19 Tue 4/23/19 Tue 5/14/19 Tue 5/14/1	11	specifications/budget with	Code AB-d	4 hrs	Thu 4/18/19	Thu 4/18/19	10
14	12	-	Code AB-e	1 day	Fri 4/19/19	Fri 4/19/19	11
14 Obtain approvals to proceed (concept, timeline, budget) Code AB-g 4 hrs Tue 4/23/19 Tue 4/23/19 13 15 Secure required resources Code AB-h 1 day Tue 4/23/19 Wed 4/24/19 14 16 Analysis complete Code AB-i 0 days Wed 4/24/19 Wed 4/24/19 15 17 Design Code AC 14.5 days Wed 4/24/19 Fri 4/26/19 15 18 Review preliminary software specifications Code AC-b 2 days Wed 4/24/19 Fri 4/26/19 16 19 Develop functional specifications Code AC-b 5 days Fri 4/26/19 Fri 5/3/19 18 20 Develop prototype based on functional specifications Code AC-d 2 days Thu 5/9/19 Mon 5/13/19 19 21 Review functional specifications Code AC-d 2 days Thu 5/9/19 Mon 5/13/19 20 23 Obtain approval to proceed Code AC-g 0 days Tue 5/14/19 Tue 5/14/19 22 24 Design complete Code AD-g <td>13</td> <td>·</td> <td>Code AB-f</td> <td>1 day</td> <td>Mon 4/22/19</td> <td>Mon 4/22/19</td> <td>12</td>	13	·	Code AB-f	1 day	Mon 4/22/19	Mon 4/22/19	12
Analysis complete	14	Obtain approvals to proceed	Code AB-g	4 hrs	Tue 4/23/19	Tue 4/23/19	13
The code The code	15	Secure required resources	Code AB-h	1 day	Tue 4/23/19	Wed 4/24/19	14
The code The code	16	Analysis complete	Code AB-i	0 days	Wed 4/24/19	Wed 4/24/19	15
Review preliminary software specifications Code AC-a 2 days Fri 4/26/19 Fri 4/26/19 16				-			
Develop functional specifications		Review preliminary software		-			16
Specifications Code AC-c 4 days Fri 5/3/19 Thu 5/9/19 19	19	-	Code AC-b	5 days	Fri 4/26/19	Fri 5/3/19	18
Functional specifications Code AC-d 2 days Thu 5/9/19 Mon 5/13/19 20 Specifications Incorporate feedback into functional specifications Code AC-e 1 day Mon 5/13/19 Tue 5/14/19 21 22 24 Design complete Code AC-g 0 days Tue 5/14/19 Tue 5/14/19 22 24 Design complete Code AC-g 0 days Tue 5/14/19 Tue 5/14/19 23 25 Development Code AD 81 days Wed 5/15/19 Wed 9/4/19 Wed 5/15/19 Wed 9/4/19 24 Specifications Code AD-a 1 day Wed 5/15/19 Wed 5/15/19 24 Specifications Code AD-b 3.33 days Thu 5/16/19 Tue 5/21/19 26 28 Course Creation Code AD-c 0.67 days Tue 5/21/19 Tue 5/21/19 27 29 Course definition Code AD-d 4 days Wed 5/22/19 Mon 5/27/19 28 30 Course management Code AD-e 1 day Tue 5/28/19 Tue 5/28/19 29 31 Course Versioning Code AD-f 1 day Wed 5/29/19 Wed 5/29/19 30 32 Course search Code AD-h 1 day Mon 6/3/19 Mon 6/3/19 31 33 Create Programs Code AD-h 1 day Mon 6/3/19 Mon 6/3/19 32 34 Program Definition Code AD-h 1 day Wed 6/5/19 Thu 6/6/19 34 36 Program Management Code AD-m 1.67 days Thu 6/6/19 Fri 6/7/19 35 37 Search Programs Code AD-m 2 days Mon 6/10/19 Wed 6/12/19 Thu 6/10/19 36 Start Proposals Code AD-m 2 days Mon 6/10/19 Wed 6/12/19 Thu 6/13/19 38 Start Proposals Code AD-m 2 days Mon 6/10/19 Wed 6/12/19 Thu 6/13/19 38 Thu 6/10/19 Thu 6/13/19 Thu 6/13/19 39 Proposal Collaboration Code AD-n 1 day Wed 6/12/19 Thu 6/13/19 38 Thu 6/10/19 Thu 6/13/19 Thu 6/13/19 38 Thu 6/10/19 Thu 6/13/19 Thu 6/13/19 Thu 6/13/19 Thu 6/13/19 Thu 6/13/19 Thu 6/13/19 38 Thu 6/10/19 Thu 6/13/19		specifications					
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25 Development Code AD 81 days Wed 5/15/19 Wed 9/4/19 26 Review functional specifications Code AD-a 1 day Wed 5/15/19 Wed 5/15/19 24 27 MDM Code AD-b 3.33 days Thu 5/16/19 Tue 5/21/19 26 28 Course Creation Code AD-c 0.67 days Tue 5/21/19 27 29 Course definition Code AD-d 4 days Wed 5/22/19 Mon 5/27/19 28 30 Course management Code AD-e 1 day Tue 5/28/19 Tue 5/28/19 29 31 Course Versioning Code AD-f 1 day Wed 5/29/19 Wed 5/29/19 30 32 Course search Code AD-g 2 days Thu 5/30/19 Fri 5/31/19 31 33 Create Programs Code AD-h 1 day Mon 6/3/19 Mon 6/3/19 32 34 Program Definition Code AD-i 1.67 days Tue 6/4/19 Wed 6/5/19 33 35 Program Wanagement <td< td=""><td>24</td><td>Design complete</td><td>Code AC-g</td><td>0 days</td><td>Tue 5/14/19</td><td>Tue 5/14/19</td><td>23</td></td<>	24	Design complete	Code AC-g	0 days	Tue 5/14/19	Tue 5/14/19	23
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39 Proposal Collaboration Code AD-n 1 day Wed 6/12/19 Thu 6/13/19 38		-		•	· · ·		
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40 Proposal Keview Code AD-0 3.33 days Thu 6/13/19 Wed 6/19/19 39				· ·			
	40	Proposal Review	Code AD-o	3.33 days	Thu 6/13/19	Wed 6/19/19	39

	Task Name	WBS	Duration	Start	Finish	Predecessors
41	Search / Archive Proposals	Code AD-p	1 day	Wed 6/19/19	Thu 6/20/19	40
42	Course Set	Code AD-q	2 days	Thu 6/20/19	Mon 6/24/19	41
43	Define Learning Objectives	Code AD-r	1 day	Mon 6/24/19	Tue 6/25/19	42
44	Organize LO	Code AD-s	1.5 days	Tue 6/25/19	Wed 6/26/19	43
45	Attach LO	Code AD-t	1 day	Wed 6/26/19	Thu 6/27/19	44
46	Course Analysis	Code AD-u	4.5 days	Thu 6/27/19	Thu 7/4/19	45
47	Program Analysis	Code AD-v	1 day	Thu 7/4/19	Fri 7/5/19	46
48	Print / Export / Notifications	Code AD-w	0.83 days	Fri 7/5/19	Fri 7/5/19	47
49	Backend services	Code AD-x	12 days	Mon 7/8/19	Tue 7/23/19	48
50	Configurations	Code AD-y	6 days	Wed 7/24/19	Wed 7/31/19	49
51	Accredition	Code AD-z	6.67 days	Thu 8/1/19	Fri 8/9/19	50
52	SSO / API Integration / Bilingual	Code AD-aa	15.67 days	Fri 8/9/19	Mon 9/2/19	51
53	System Features	Code AD-ab	2.67 days	Mon 9/2/19	Wed 9/4/19	52
54	Development complete	Code AD-ab	0 days	Wed 9/4/19	Wed 9/4/19	53
55	Testing	Code AE	49 days	Thu 9/5/19	Tue 11/12/19	
56	Develop unit test plans using product specifications	Code AE-a	2 days	Thu 9/5/19	Fri 9/6/19	54
57	Develop integration test plans using product specifications	Code AE-b	2 days	Mon 9/9/19	Tue 9/10/19	56
58	Functional Testing	Code AE-c	25.5 days	Wed 9/11/19	Wed 10/16/19	
59	Review modular code	Code AE-c.1	2.5 days	Wed 9/11/19	Fri 9/13/19	57
60	Test component modules to product specifications	Code AE-c.2	5 days	Fri 9/13/19	Fri 9/20/19	59
61	Identify anomalies to product specifications	Code AE-c.3	,	Fri 9/20/19	Fri 9/27/19	60
62	Modify code	Code AE-c.4	10 days	Fri 9/27/19	Fri 10/11/19	61
63	Re-test modified code	Code AE-c.5	3 days	Fri 10/11/19	Wed 10/16/19	62
64	Unit testing complete	Code AE-c.6	0 days	Wed 10/16/19	Wed 10/16/19	63
65 66	Integration Testing Test module integration	Code AE-d.1	19.5 days 5.5 days	Wed 10/16/19 Wed 10/16/19	Tue 11/12/19 Wed 10/23/19	64
67	Identify anomalies to specifications	Code AE-d.2	6 days	Thu 10/24/19	Thu 10/31/19	66
68	Modify code	Code AE-d.3	3 days	Fri 11/1/19	Tue 11/5/19	67
69	Re-test modified code	Code AE-d.4	5 days	Wed 11/6/19	Tue 11/12/19	68
70	Integration testing complete		0 days	Tue 11/12/19	Tue 11/12/19	69
71	Training	Code AF	37 days	Wed 11/13/19	Thu 1/2/20	
72	Develop training specifications for end users		3 days	Wed 11/13/19	Fri 11/15/19	70
73	Develop training specifications for helpdesk support staff	Code AF-b	3 days	Mon 11/18/19	Wed 11/20/19	72
74	Identify training delivery methodology (computer based training, classroom, etc.)	Code AF-c	2 days	Thu 11/21/19	Fri 11/22/19	73
75	Develop training materials	Code AF-d	4 wks	Mon 11/25/19	Fri 12/20/19	74
76	Conduct training usability	Code AF-e	4 days	Mon 12/23/19	Thu 12/26/19	75
	study					

	Task Name	WBS	Duration	Start	Finish	Predecessors
78	Develop training delivery mechanism	Code AF-g	2 days	Wed 1/1/20	Thu 1/2/20	77
79	Training materials complete	Code AF-h	0 days	Thu 1/2/20	Thu 1/2/20	78
80	Documentation	Code AG	139 days	Wed 5/15/19	Mon 11/25/19	
81	Develop Help specification	Code AG-a	1 day	Wed 11/13/19	Wed 11/13/19	55
82	Develop Help system	Code AG-b	3 days	Thu 11/14/19	Mon 11/18/19	81
83	Review Help documentation	Code AG-c	3 days	Tue 11/19/19	Thu 11/21/19	82
84	Incorporate Help documentation feedback	Code AG-d	2 days	Fri 11/22/19	Mon 11/25/19	83
85	Develop user manuals specifications	Code AG-e	2 days	Wed 5/15/19	Thu 5/16/19	24
86	Develop user manuals	Code AG-f	3 wks	Fri 5/17/19	Thu 6/6/19	85
87	Review all user documentation	Code AG-g	2 days	Fri 6/7/19	Mon 6/10/19	86
88	Incorporate user documentation feedback	Code AG-h	2 days	Tue 6/11/19	Wed 6/12/19	87
89	Documentation complete	Code AG-i	0 days	Wed 6/12/19	Wed 6/12/19	88
90	Pilot	Code AH	7 days	Wed 11/13/19	Thu 11/21/19	
91	Identify test group	Code AH-a	1 day	Wed 11/13/19	Wed 11/13/19	70
92	Develop software delivery mechanism	Code AH-b	1 day	Thu 11/14/19	Thu 11/14/19	91
93	Install/deploy software	Code AH-c	1 day	Fri 11/15/19	Fri 11/15/19	92
94	Obtain user feedback	Code AH-d	3 days	Mon 11/18/19	Wed 11/20/19	93
95	Evaluate testing information	Code AH-e	1 day	Thu 11/21/19	Thu 11/21/19	94
96	Pilot complete	Code AH-f	0 days	Thu 11/21/19	Thu 11/21/19	95
97	Deployment	Code AI	5 days	Fri 11/22/19	Thu 11/28/19	
98	Determine final deployment strategy	Code Al-a	1 day	Fri 11/22/19	Fri 11/22/19	96
99	Develop deployment methodology	Code AI-b	1 day	Mon 11/25/19	Mon 11/25/19	98
100	Secure deployment resources	Code Al-c	1 day	Tue 11/26/19	Tue 11/26/19	99
101	Train support staff	Code AI-d	1 day	Wed 11/27/19	Wed 11/27/19	100
102	Deploy software	Code Al-e	1 day	Thu 11/28/19	Thu 11/28/19	101
103	Deployment complete	Code AI-f	0 days	Thu 11/28/19	Thu 11/28/19	102
104	Post Implementation Review	Code AJ	3 days	Fri 11/29/19	Tue 12/3/19	
109	Software development template complete	Code AK	0 days	Tue 12/3/19	Tue 12/3/19	108