WBS ID	Task Description	Task Assigned to	Estimate (hrs)	Estimating Approach	Estimate (hrs)	Estimated Interruptions (hrs) (Estimate * 0.33)	Total Effort (hrs)	Labor Rate $/hr	Labor Cost Total $	Expenses	Total Costs	# of Resources	Calendar duration
1.0	Project FPD DM Dashboard												
1.1	Define Requirements												
1.1.1	Conduct QlikSense AI tool Training *(Don't factor the hours - Assume full time training for this only)*	Dean, Jess, Paris	40	Expert	120				$ -	$ 10,000	$ 10,000	3	0
1.1.2-4	Requirements	William, Taraji, Nia	80	Expert/Bottom-Up	24	26.4	50.4	$120	$ 6,048	0	$ 6,048	3	16.8
1.2	Design Dashboard												
1.2.1	Conceptual Design - Defining Entities Relationships	William, Taraji,	40	Bottom Up Estimating	40	13.2	53.2	$40	$ 2,128		$ 2,128	3	26.6
1.2.2	Create ERD	Nia, Samuel	40	Parametic Estimating	40	13.2	53.2	$40	$ 2,128		$ 2,128	2	13.3
1.2.2	Logical Design	William, Taraji,	40	Parametic Estimating	40	13.2	53.2	$40	$ 2,128		$ 2,128	3	26.6
1.2.3	Physical Design	William, Taraji, Nia	40	Bottom Up Estimating	40	13.2	53.2	$120	$ 6,384		$ 6,384	6	13.3
1.3	Source/Cleanse data												
1.3.2	Data Mapping	Nia	10	Vendor Bid Analysis	10	3.3	13.3	$40	$ 532		$ 532	2	6.65
1.3.3	Data Extracting/Pre-processing Protocol	Nia	15	Bottom Up Estimating	15	5.0	20.0	$40	$ 798		$ 798	2	9.98
1.3.4	Data Cleaning	Nia	10	Bottom Up Estimating	10	3.3	13.3	$40	$ 532		$ 532	2	6.65
1.3.5	Validate Data Migration	Nia	5	Expert	5	1.7	6.7	$40	$ 266		$ 266	2	3.33
1.4	Develop analytics models												
1.4.1	Database Set Up/Frame Work	Analyst Team	100	Parametic Estimating	100	33.0	133.0	$160	$ 21,280		$ 21,280	2	66.50
1.4.2	Install Database Server	Analyst Team	60	Expert	60	19.8	79.8	$160	$ 12,768		$ 12,768	2	39.90
1.4.3	Implement Schema	Analyst Team	80	Bottom Up Estimating	80	26.4	106.4	$160	$ 17,024		$ 17,024	2	53.20
1.5	Construct/Modify dashboard												
1.5.1	Load Initital Data	Samuel Lincoln	130	Three Point Estimating	130	42.9	172.9	$80	$ 13,832		$ 13,832	1	172.90
1.5.2	Perforam Data Validation	William, Taraji,	130	Bottom Up Estimating	130	42.9	172.9	$160	$ 27,664		$ 27,664	3	57.63
1.5.3	Optimize Data Loading	William, Taraji,	130	Bottom Up Estimating	130	42.9	172.9	$160	$ 27,664		$ 27,664	1	172.90
1.6	Test dashboard												
1.6.1	Test Plan(s)	William	130	Expert Judgement	130	42.9	172.9	$40	$ 6,916		$ 6,916	6	28.82
1.6.2	Performance Testing	William	130	Three Point Estimating	130	42.9	172.9	$40	$ 6,916		$ 6,916	6	28.82
1.6.3	Security Testing	William	130	Expert Judgement	130	42.9	172.9	$40	$ 6,916		$ 6,916	6	28.82
1.7	Train Users												
1.7.1	User Guide	Jamie Wolf	25	Parametic Estimating	25	8.3	33.3	$40	$ 1,330		$ 1,330	2	16.63
1.7.2	Technical Guide	Jamie Wolf	25	Bottom Up Estimating	25	8.3	33.3	$40	$ 1,330		$ 1,330	1	33.25
1.7.3	IT Training	Jamie Wolf	20	Expert	20	6.6	26.6	$40	$ 1,064		$ 1,064	1	26.60
1.7.4	Makreting and Sales Training	Jamie Wolf	10	Expert	10	3.3	13.3	$40	$ 532		$ 532	1	13.30
1.8	Deploy Dashboard												
1.8.1	Deployment Plan	William	20	Expert Judgement	20	6.6	26.6	$40	$ 1,064		$ 1,064	1	26.60
1.8.2	Production Environment	Taraji	20	Bottom Up Estimating	20	6.6	26.6	$40	$ 1,064		$ 1,064	1	26.60
1.8.3	Final Data Migration	Nia	20	Three Point Estimating	20	6.6	26.6	$40	$ 1,064		$ 1,064	1	26.60
1.8.4	Final Testing, Go Live	William	20	Expert Judgement	20	6.6	26.6	$40	$ 1,064		$ 1,064	1	26.60
1.9	Project Management *(Put all project management time here - assume full time or half time and don't factor)*												
1.9.1	Project Plan	Project Manager	20	Expert Judgement	20	6.6	26.6	$55	$ 1,463	$ 1,596	$ 1,596	1	26.60
1.9.2	Project Execcution	Project Manager	40	Three Point Estimating	40	13.2	53.2	$55	2,926	$3,192	$3,192	1	53.20
1.9.3	Project Monitoring	Project Manager	60	Three Point Estimating	940	19.8	959.8	$55	52,789	$4,788	$4,788	1	959.80
1.9.4	Final Reports	Project Manager	20	Analagous Estimating	20	6.6	26.6	$55	1,463	$1,596	$1,596	1	26.60
									$ 229,077	$ 21,172	$ 191,608	61	

Total $ - $ - $ -