

To Whom It May Concern,

Find attached a report detailing our best estimates on what a prospective feature list would look like if we were to reduce development time to 80 or 70 person-days. These estimates assume that we are only deducting from the original 100 person-days available for development, as such represent 20 and 30 percent reductions from the original 100 person-days.

Find attached:

1. A single table outlining our original use cases.
2. A single table outlining the benefit, penalty, value, cost, risk priority, and rank of our features (use-cases) mapped to the original use-cases in the original use-case document.
3. Two feature-lists specifying viable feature lists if we were to reduce our developmental person-days to 80 and 70 days.

Feature lists are created by choosing the highest ranking features (found in attachment 2) and adding them to the feature-list until the target cost is reached. As we are targeting 80 and 70 person-days of our original 100, we have 80 and 70 percent available resources in terms of time (cost) respectively.

A few things to note when reading the feature lists:

- The original feature list (measured at 100 person-days) reflects 100% completion of all use-cases and optional features (history, graphing, payslip generation, automated scripts, etc...)
- In the reduced feature lists, some of the optional features will be taken away to keep key functionality but at a lower cost. You will find notes denoting such changes in the 'notes'

Thank You,

Evan Louie

#	Actor	Name	Description	UV	Effort
UC1	Partner	Display current asset and history of contribution	For a partner, display current ownership, and history of contributions with level of ownership over time	1	4 (ownership) +3 (history)
UC2	Partner	Display current ownership	Show on a table the list of partners, and their current level (%) of ownership	1	5
UC3	Partner	Display current portfolio	Show the current composition of the portfolio, including the cash component	1	5
UC4	Partner	Display net unit value history	Show with table and graph the evolution of the investment club net unit value	1	3 (table) +5 (graph)
UC5	Treasurer	Enter partner contributions	How much cash are the partners contributing in the current cycle (period)	2	3
UC6	Treasurer	Close cycle	Recompute the value of the unit, based on contributions, withdrawals, portfolio value, and revenues	1	8
UC7	Treasurer	Admit new partner	Add a new partner on the roster	2	2
UC8	Treasurer	Remove a departing partner	Liquidate the share of a partner	3	3
UC9	Treasurer	Enter income and expenses	Based on monthly brokerage statement, enter interests, capital gains, dividends, and financial charges	2	3
UC10	Trader	Enter trades	Add and remove entries in the portfolio of securities as decided by the club	2	4
UC11	Trader	Enter securities value	Manually enter securities value (and exchange rates)	2	2
UC12	System	Compute portfolio valuation	Everyday, the system computes automatically the value of the securities part of the portfolio, using online services	2	9
UC13	Treasurer	Produce taxation data	For a fiscal year, generate data to fulfill personal tax filing, such as T5 slips in Canada	2	12 (data) +2 (slip)
UC14	Partner	Access taxation data	After UC13, individuals can access their own data for tax filing purposes	2	+1
UC15	Admin	Install and set up	Create the server and the database	3	5 (manually) + 4 (script)
UC16	Admin	Maintain user and role	Create, maintain, delete: user login, password, and assign roles	3	6
UC17	All	Login/logout/time-out	Abstract use case that wraps all others	3	4 (login/out) + 1 (time out)
UC18	Admin	Backup	Backup and restore all data	3	3
UC19	Admin	Configure	Personalize the site (name, logo etc)	2	4

**100 Person Days**

Feature (UC)	Benefit	Penalty	Value	Value %	Cost	Cost %	Risk	Risk %	Priority	Rank
1	2	4	6	2.843602	6	6.818182	3	3.947368	0.264139	15
2	4	3	7	3.317536	5	5.681818	2	2.631579	0.399059	11
3	3	4	7	3.317536	5	5.681818	3	3.947368	0.344529	13
4	4	3	7	3.317536	7	7.954545	5	6.578947	0.228268	17
5	6	4	10	4.739336	3	3.409091	2	2.631579	0.784571	6
6	1	1	2	0.947867	7	7.954545	4	5.263158	0.071712	19
7	6	3	9	4.265403	1	1.136364	8	10.52632	0.365731	12
8	8	8	16	7.582938	3	3.409091	2	2.631579	1.255314	1
9	6	5	11	5.21327	3	3.409091	3	3.947368	0.708666	8
10	6	8	14	6.635071	4	4.545455	3	3.947368	0.781256	7
11	6	7	13	6.161137	2	2.272727	4	5.263158	0.817573	5
12	5	7	12	5.687204	7	7.954545	7	9.210526	0.331324	14
13	5	4	9	4.265403	9	10.22727	8	10.52632	0.205526	18
14	4	2	6	2.843602	1	1.136364	8	10.52632	0.243821	16
15	9	9	18	8.530806	8	9.090909	3	3.947368	0.654289	9
16	9	9	18	8.530806	5	5.681818	1	1.315789	1.219103	2
17	9	9	18	8.530806	5	5.681818	2	2.631579	1.026152	3
18	8	7	15	7.109005	3	3.409091	3	3.947368	0.966362	4
19	6	7	13	6.161137	4	4.545455	5	6.578947	0.55384	10
<b>Total</b>			<b>211</b>		<b>88</b>	<b>100</b>	<b>76</b>			

Notes:

- ALL 'optional' functionality is present in this feature list (history tracking for UC1, graphing functionality for UC4, etc...)

**80 Person Days**

Feature (UC)	Benefit	Penalty	Value	Value %	Cost	Cost %	Risk	Risk %	Priority	Rank
1	1	3	4	2.061856	4	4.545455	3	4.615385	0.225073	16
2	4	3	7	3.608247	5	5.681818	2	3.076923	0.41196	11
3	3	4	7	3.608247	5	5.681818	3	4.615385	0.35041	12
4	3	3	6	3.092784	4	4.545455	5	7.692308	0.252725	14
5	6	4	10	5.154639	3	3.409091	2	3.076923	0.794731	6
7	6	3	9	4.639175	1	1.136364	8	12.30769	0.345073	13
8	8	8	16	8.247423	3	3.409091	2	3.076923	1.27157	2
9	6	5	11	5.670103	3	3.409091	3	4.615385	0.706601	8
10	6	8	14	7.216495	4	4.545455	3	4.615385	0.787755	7
11	6	7	13	6.701031	2	2.272727	4	6.153846	0.795226	5
13	5	4	9	4.639175	9	10.22727	8	12.30769	0.205866	17
14	4	2	6	3.092784	1	1.136364	8	12.30769	0.230048	15
15	9	9	18	9.278351	8	9.090909	3	4.615385	0.676941	9
16	9	9	18	9.278351	5	5.681818	1	1.538462	1.28504	1
17	9	9	18	9.278351	5	5.681818	2	3.076923	1.059325	3
18	8	7	15	7.731959	3	3.409091	3	4.615385	0.963547	4
19	6	7	13	6.701031	4	4.545455	5	7.692308	0.54757	10
<b>Total</b>			<b>194</b>		<b>69</b>	<b>78.40909</b>	<b>65</b>			

Notes:

- No history tracking for UC1
- No graphing for UC4
- All other 'additional' functionality for present features our still intact

**70 Person days**

Feature (UC)	Benefit	Penalty	Value	Value %	Cost	Cost %	Risk	Risk %	Priority	Rank
1	1	3	4	2.061856	4	4.545455	3	4.615385	0.225073	15
2	4	3	7	3.608247	5	5.681818	2	3.076923	0.41196	11
3	3	4	7	3.608247	5	5.681818	3	4.615385	0.35041	12
4	3	3	6	3.092784	4	4.545455	5	7.692308	0.252725	14
5	6	4	10	5.154639	3	3.409091	2	3.076923	0.794731	6
7	6	3	9	4.639175	1	1.136364	8	12.30769	0.345073	13
8	8	8	16	8.247423	3	3.409091	2	3.076923	1.27157	2
9	6	5	11	5.670103	3	3.409091	3	4.615385	0.706601	8
10	6	8	14	7.216495	4	4.545455	3	4.615385	0.787755	7
11	6	7	13	6.701031	2	2.272727	4	6.153846	0.795226	5
15	9	9	18	9.278351	8	9.090909	3	4.615385	0.676941	9
16	9	9	18	9.278351	5	5.681818	1	1.538462	1.28504	1
17	9	9	18	9.278351	5	5.681818	2	3.076923	1.059325	3
18	8	7	15	7.731959	3	3.409091	3	4.615385	0.963547	4
19	6	7	13	6.701031	4	4.545455	5	7.692308	0.54757	10
<b>Total</b>			<b>179</b>		<b>59</b>	<b>67.04545</b>	<b>49</b>			

Notes:

- No history tracking for UC1
- No graphing for UC4
- Following feature UC13's feature removal, we automatically removed UC14 as it depends on UC13
- All other 'additional' functionality for present features are still intact