Proficious

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Tasks

Version: 3

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Tasks

User Story	Task Description	Story Points	Dependencies
U1	T1: Develop the database model to store the iCare information • Setup a sandbox MongoDB database on a cloud service	2	
U2	T2: Design the base JSON template system • Make a base system that loads the templates into JSONObject objects	3	
U3	T3: Develop the template system implementation for the iCare data templates • Go through all the iCare template types and build the basic mapping JSON mapping structure	2	T2
U4	T4: Design a data-object for representing the information from the iCare datasheets • Use the JSON format to make an object representation of the data parsed from the iCare templates	5	

	T5: Implement the parser using the template system (T3) for the iCare datasheets which is stored into the data-object from T4 • Takes the JSON mapping files from T3 and goes through each row in a populated iCare excel file and "fills in" the data into the JSON structure	5	T3, T4
U5	T6: Implement the feature that inputs the populated data-object with the iCare data and saves it into the database • The basic database interface that puts JSONObjects into the MongoDB that was setup earlier	5	T4
U6	T7: Design a base system that all report types will function on • Use the template base class to make a template manager for the report system	5	
	T8: Implement a base template system that all report types will function on • Use pre-made excel files with different chart types, inject data into them and save them as new files	3	T2
	T9: Develop a system that allows for query retrievals from the database • Add data-retrieval functionality to DatabaseDriver	5	T6
U7	T10: Develop an assortment of chart templates that the report system can use for generating reports • Make an assortment of excel files supporting different chart types	3	T7, T8
	T11: Develop an assortment of report presets to meet some of the client's research questions • Use the report system from T7, the template system from T8 and the database retrieval system from T9 make customized presets that meet some of the client's research questions	5	T7, T8, T9
U8	T12: Design the basic graphical interface for the "uploader" user type. • Rough-out the interface using Java Swing	5	

	T13: Implement the interface designed in T7 to work with the parser and uploader systems (T5 & T6) • Implement functionality of the interface that was designed in T11	3	T5, T6, T7
U9	T14: Design the basic graphical interface for the "admin" user type • Rough-out the interface using Java Swing	5	
	T15: Implement the interface designed in T14 to work with the report system (T7 & T8) • Implement functionality of the interface that was designed in T14	5	T7, T8, T14
U10	T16: Document, format and refactor (if needed) the source code for the template parser system.	3	T5
	T17: Ensure that all unit/integration tests for the template parser system are complete and well-written.	4	T5
	T18: Document, format and refactor (if needed) the source code for the database connection system.	3	T6
	T19: Ensure that all unit/integration tests for the database connection system are complete and well-written.	4	T6
	T20: Document, format and refactor (if needed) the source code for the report generation system and report implementations.	3	T7, T8, T9, T10, T11
	T21: Ensure that all unit/integration tests for the report generation system as well as the report implementations are complete and well-written.	4	T7, T8, T9, T10, T11
	T22: Document, format and refactor (if needed) the source code for the upload and report generation graphical interface systems.	3	T13, T15
	T23: Ensure that all unit/integration tests for the upload and report generation graphical interface systems are complete and well-written.	4	T13, T15