

Sprint Backlog - updated 4/25/20 - Team 3: Archer (deak0007), Baker (bake1358), Kluegel (klue0037), Spitzer-Resnick (spitz123)

Priority	PBI	Assignment/Task (Not Started)	Assignment/Task (In-progress)	Assignment/Task (Complete)	Team Member	Time(hr)	Start date	Completed on	Due on
1	Fix Project 1 Code			STV Election (compile and debug)	Archer/Kluegel		4/14/2020	4/18/2020	
				First Ballot Number Assignment (code, compile and debug) - break ties	Archer/Kluegel		4/14/2020	4/18/2020	
				Logger (code)	Archer, Hailin			4/17/2020	
				Add logging code to plurality election	Archer, Hailin			4/19/2020	
				Add logging code to stv election	Archer, Hailin		4/18/2020	4/18/2020	
				Add logging code to voting info, ballot file processor to record to log ballot	Archer, Hailin			4/19/2020	
				Merge unit and system tests into devel-p2	Baker, Bryan				
				STV Election (unit test)	Archer/Baker/Kluegel		4/16/2020		
				Logger (unit test)	Archer/Baker				
		STV Election documentation (test logs)			Archer, Hailin				
				System test (code and run - comprehensive ballot files)	Baker, Bryan		4/20/2020		
				Add doxygen Doxyfile to makefile	Spitzer-Resnick, Josh	1hr	4/15/2020	4/15/2020	
				Write loop in main in UserInterface to input multiple ballot files (BallotFileProcessor appends to lists)	Spitzer-Resnick, Josh	5hr	4/18/2020	4/20/2020	
				Copy P1 into P2 folder	Spitzer-Resnick, Josh	1hr	4/14/2020	4/14/2020	
				Create a makefile for tests	Baker, Bryan		4/17/2020		
				User interface error proof and debug	Archer, Hailin			4/17/2020	
				Generate ballot files for testing	Archer, Hailin		4/17/2020	4/17/2020	
				Update plurality_election result_display: Make it easier to read	Archer, Hailin		4/20/2020	4/20/2020	
				Fixed tie_break bug in plurality_election_record: Make it truly pseudo random. It was picking the same candidate everytime when the same ballot files were run.	Archer, Hailin		4/20/2020	4/20/2020	
				Fixed a bug in logger: fix line width of list logging to 200 characters, instead of 200 elements	Archer, Hailin		4/20/2020	4/20/2020	
				Ballot file generator: Add a comma at the end of each line and use '\n' for a new line instead of '\r\n' (causing unexpected logging new line when the last candidate name is being logged)	Archer, Hailin		4/20/2020	4/20/2020	
				Add invalid user input handling to user interface	Archer, Hailin			4/20/2020	
				Error checking code for Ballot file candidate matching in multiple ballot files	Archer, Hailin			4/24/2020	
				Fix VotingInfo Add_To_List methods to reject duplicates according to unit tests, fix documentation	Spitzer-Resnick, Josh	1.5hr	4/21/2020	4/21/2020	
				Reconcile Hailin's ResultDisplay logging in archer-p2 with devel-p2 with Kompere	Archer/Baker			4/24/2020	
				Merge Hailin's latest update/bug fix to devel-p2	Archer/Baker			4/24/2020	
				Fix ballot processing bug: end of line special character handling	Archer, Hailin			4/24/2020	
				Rewrite code to handle multiple ballot files robustly	Archer, Hailin			4/24/2020	
				Code user interface for multiple ballot file selection	Archer, Hailin			4/24/2020	
				Add timestamp to audit file name, so that audit file does not get too big with multiple voting system run	Archer, Hailin			4/25/2020	
		Update unit test for ballot_file_processor							
				Invalidate STV ballots in Ballot File Processor (check VotingInfo if algorithm is STV, extra function, create invalidated_STV_ballots_std:: list<*Candidate> in VotingInfo - APPEND TO FILE SO CAN TAKE MULTIPLE BALLOT FILES) ***AND*** documentation	Baker, Bryan		4/14/2020		
				Unit test (include edge ballot file examples)	Baker, Bryan		4/15/2020		
				System test	Baker, Bryan				
				Documentation (Doxygen)	Baker, Bryan		4/14/2020		
				Documentation (Test Cases)	Baker, Bryan		4/15/2020		
				Merge into devel-p2	Baker, Bryan		4/16/2020		
3	Save a file containing invalidated ballots to disk			Write WriteInvalidBallotsToFile(std::string filename) method in VotingInfo (has all of voting info - loop through) - call from STVElection::RunElection (VotingInfo*)	Spitzer-Resnick, Josh	7hr	4/20/2020	4/21/2020	
				Unit testing (VotingInfo initialized)	Spitzer-Resnick, Josh	1hr	4/21/2020	4/21/2020	
				System tests (erroneous ballot files)	Spitzer-Resnick, Josh	1hr	4/20/2020	4/21/2020	
				Documentation	Spitzer-Resnick, Josh	.5hr	4/20/2020	4/20/2020	
				Fix invalid ballot file format issue	Archer, Hailin			4/24/2020	

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				Add timestamp to invalid ballot file name, so that files are not overwritten every time voting system re-run	Archer, Hailin			4/25/2020	
				Move invalid ballot file creation to ballot file processor - a more logical place	Archer, Hailin			4/25/2020	
4	GUI for the directory search			Learn how to create GUI - Qt Creator	Kluegel, Colin				
			Write extra function selectFileGUI_ in main in UserInterface (input file name option - open GUI to select filename, close GUI) - THINK CAN JUST DO ONE AT A TIME BUT CHECK NOTES		Kluegel, Colin				
			Unit testing		Kluegel, Colin				
			System tests		Kluegel, Colin				
			Documentation (doxygen comments)		Kluegel, Colin				
General Tasks	Update Readme				All				4/27/2020
	Merge changes after ballot file processor update				Archer, Hailin				4/26/2020
		make sure doxygen documentation looks ok			Spitzer-Resnick, Josh		4/25/2020		4/27/2020
	Add voting_system.h with comments for doxygen				Spitzer-Resnick, Josh				