Title: TempTor: Temperature Monitoring System

Vision: To provide the easiest way to monitor temperatures in commercial equipment and display them in a user friendly format.

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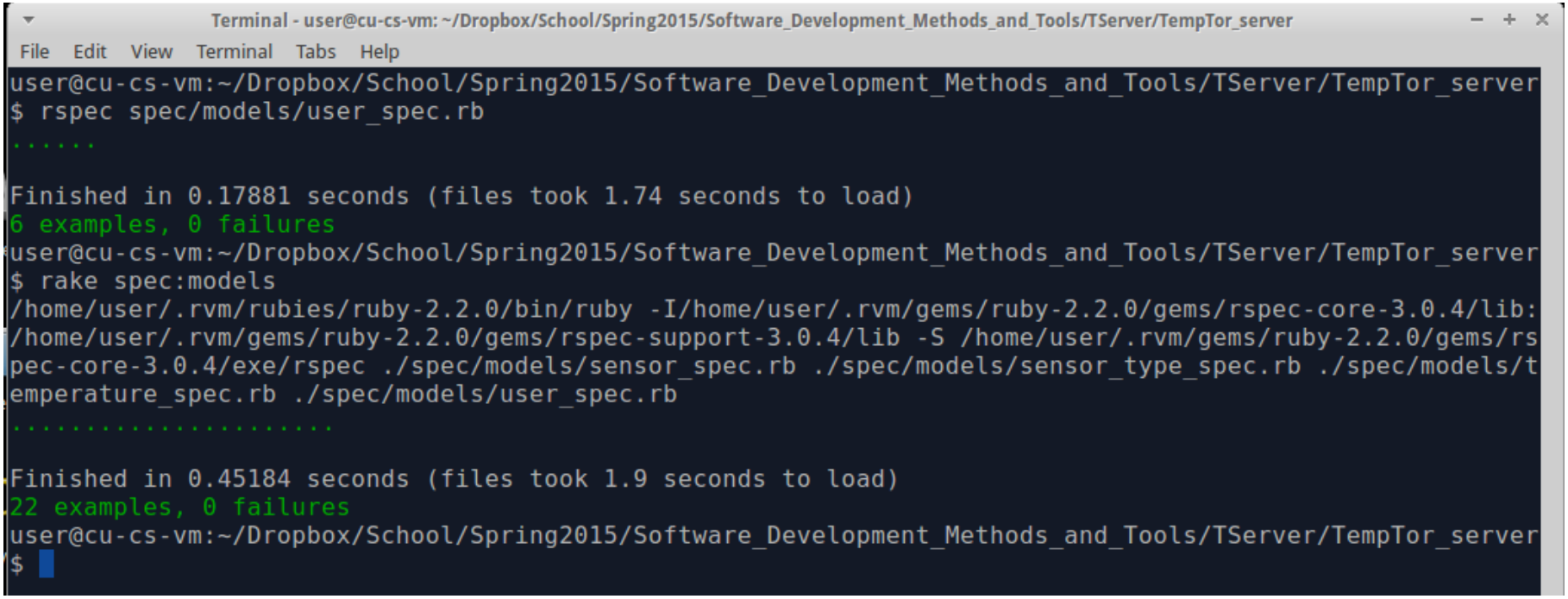
Automated Tests: Tool used; Rspec (http://rspec.info/)

Code required for testing is in the server repo (link is at the end of the document). To run, you need to have Ruby on Rails set up, and you need to run bundle install to ensure all required gems are installed. The commands below are examples of what can be run. The first command runs all tests for “user” while the second command runs all tests. The tests are to validate that the database is functioning properly. (A demonstration to see the tests being run may be easiest.)



User Acceptance Tests:

UR.01

	Project Name: TempTor					
	User Acceptance Tests					
	Test Case ID:	UR.01	Test Designed by:	Sutton/ Maryjane		
	Test Priority (Low/Medium/High):	High	Test Design date:	4/1/2015		
	Module Name:	View Reports	Test Executed by:	Sutton / Maryjane		
	Test Title:	Verify Report	Test Execution date:	4/1/2015		
	Description:	As a user, I want to be able to go to a website to view reports				
		of the temperature data so that I can see if my appliances are working properly				
Step	Test Steps	Test Data	Expected Result	Actual Result	Status (P/F)	Notes
1	Open Website	https://temptor.herokuapp.com/	Webpage Opens	Webpage Opens	Pass	Great Job
2	Click Menu to get pull down menu.	N/A	Menu Opens	Menu Opens	Pass	Menu only closes if clicked again
3	Click on Sensor in Menu	N/A	Goes to Sensor Page	Goes to Sensor Page	Pass	
4	On Active Sensor Page: Click Senor					
	wanted in side bar	Clicked Stove to test	Opens Stove Sensor Page	Opens Stove Sensor Page	Pass	Page is there but not set up yet
5	Find report of tempeture data	Under Description	Graph or list of temp data	Nothing	Fail	Sensor not linked to Server yet
						UR.01 Fails becuase Sensors are not connected

UR.02

	Project Name: TempTor					
	User Acceptance Tests					
	Test Case ID:	UR.02	Test Designed by:	Sutton/ Maryjane		
	Test Priority (Low/Medium/High):	Low	Test Design date:	4/1/2015		
	Module Name:	Email Alert: Range	Test Executed by:	Sutton / Maryjane		
	Test Title:	Email Alerts:Range	Test Execution date:	4/1/2015		
	Description:	As a user, I want to be able to get email alerts				
		so that I know if the temperature goes out of a set range.				
Step	Test Steps	Test Data	Expected Results	Actual Result	Status (Pass/Fail)	Notes
1	Open Website	https://temptor.herokuapp.com/	Webpage Opens	Webpage Opens	Pass	Great Job
2	Click Menu to get pull down menu.	N/A	Menu Opens	Menu Opens	Pass	Menu only closes if clicked again
3	Click on Sensor in Menu	Go to User Page	Goes to User Page	Goes to User Page	Pass	
4	Make New User	First Name: Sutton				
		Last Name: Cowperthwaite:	New User Made	New User Made	Pass	Server has user creation
		Email: csc018@bucknell.edu				
5	Set sensor to correct reading on webpage.	Set freezer: temp=0 degrees C	User should be able to set temperture range	User is not able to enter temperture range	Fail	No sensor range in sensors
6	Place sensor in warm place.	Hold sensor in room temperature area.	Sensor reads proper temp	Sensor reads proper temp	Pass	Sensor reads properly
7	Check email for alert to sensor warming.	Log into email.	User receives email alert.	User does not receive email.	Fail	UR.02 Fails need to input email alert system

UR.03

	Project Name: TempTor					
	User Acceptance Tests					
	Test Case ID:	UR.03	Test Designed by:	Sutton/ Maryjane		
	Test Priority (Low/Medium/High):	High	Test Design date:	4/1/2015		
	Module Name:	Remove / Add Sensor	Test Executed by:	Sutton / Maryjane		
	Test Title:	Sensor Change	Test Execution date:	4/1/2015		
	Description:	As a user, I want to be able to add/remove sensors,				
		so that I can manage all my appliances if I expand or contract my business.				
Step	Test Steps	Test Data	Expected Result	Actual Result	Status (P/F)	Notes
1	Open Website	https://temptor.herokuapp.com/	Webpage Opens	Webpage Opens	Pass	Great Job
2	Click Menu to get pull down menu.	N/A	Menu Opens	Menu Opens	Pass	Menu only closes if clicked again
3	Click on Sensor in Menu	N/A	Goes to Sensor Page	Goes to Sensor Page	Pass	
4	On Active Sensor Page: Click New Senor		Open New Sensor Page	Open New Sensor Page	Pass	
5	Enter in information of Sensor	Name: Heater				
		IP:10.201.86.135	Data Enters	Data Enters	Pass	
		Description: In heater				
		Type: Indoor Enviroment				
6	Click Create Sensor	N/A	Creates Sensor	Creates Sensor	Pass	First have of UR.03 Passes
7	Delete Sensor	Using Heater Clicked Edit	Delete Sensor With Button	No delete Button	Fail	UR.03 Fails becuase it can't delete Sensors

UR.04

	Project Name: TempTor					
	User Acceptance Tests					
	Test Case ID:	UR.04	Test Designed by:	Sutton/ Maryjane		
	Test Priority (Low/Medium/High	Medium	Test Design date:	4/1/2015		
	Module Name:	TimeStep Change	Test Executed by:	Sutton / Maryjane		
	Test Title:	TimeStep	Test Execution date:	4/1/2015		
	Description:	As a user, I want to be able to adjust the sensor time				
		frequency readings so that the sensor is reporting properly for each appliance				
Step	Test Steps	Test Data	Expected Result	Actual Result	Status (P/F)	Notes
1	Look on website to find way	https://temptor.herokuapp.com/	Button to run code	No Button	Fail	Need to add button to run sensor code
	to run sensor code					
2	In sensor run code	run TempTor.py	Code runs	Code Runs	Pass	
3	Script ask questions and	For units: Celsuis	Inputs enter correctly	Inputs are accepted		
	inputs work	For time set: added 20 secs then	code outputs temp data	Outputs temp data	Pass	UR.04 passes becuase user can adjust
		added 40 secs		at right time step (1 min)		time step, but needs a way to on website

UR.05

	Project Name: TempTor					
	User Acceptance Tests					
	Test Case ID:	UR.05	Test Designed by:	Sutton/ Maryjane		
	Test Priority (Low/Medium/High):	Medium	Test Design date:	4/1/2015		
	Module Name:	Precision	Test Executed by:	Sutton / Maryjane		
	Test Title:	Set Precision	Test Execution date:	4/1/2015		
	Description:	As a user, I want to be able to adjust				
		the sensor data precision so that the sensor is reporting properly for each appliance.				
Step	Test Steps	Test Data	Expected Result	Actual Result	Status (P/F)	Notes
1	Search for current precision on web page.	Set web page	User is able to	User is unable	Fail	
		Precision tab	alter decimal precision.	to locate Precision tab.		
2	Set decimal precision of	When prompted, user enters	User successfully	User is able to	Pass	
	readings in temperature sensor code.	desired decimal precision.	alters precision.	alter decimal precision.		
3	Check temperature output	Run Python code	The precision is altered	Precision is	Pass	
	in Python terminal code.	displaying temperature data.	to desired decimal places.	altered correctly.		

UR.06

	Project Name: TempTor					
	User Acceptance Tests					
	Test Case ID:	UR.06	Test Designed by:	Sutton/ Maryjane		
	Test Priority (Low/Medium/High):	Medium	Test Design date:	4/1/2015		
	Module Name:	Email Alert	Test Executed by:	Sutton / Maryjane		
	Test Title:	Email Alert	Test Execution date:	4/1/2015		
	Description:	As a user I want to receive an email if my				
		sensor stops working so that I can repair or replace it.				
Step	Test Steps	Test Data	Expected Result	Actual Result	Status (P/F)	Notes
1	Open Website	https://temptor.herokuapp.com/	Webpage Opens	Webpage Opens	Pass	Great Job
2	Click Menu to get pull down menu.	N/A	Menu Opens	Menu Opens	Pass	Menu only closes if clicked again
3	Click on Sensor in Menu	Go to User Page	Goes to User Page	Goes to User Page	Pass	
4	Make New User	First Name: Sutton				
		Last Name: Cowperthwaite:	New User Made	New User Made	Pass	Server has user creation
		Email: csc018@bucknell.edu				
5	Link sensors	Find Button to make email	Links User and Sensor for alert	No linkage	Fail	
		alert link sensor to user	set temperture range	enter temperture range		
6	Run then stop sensor	turn on sensor, run code, turn off	Sensor sends data then stops	Sensor sends data then stops	Pass	Sensor reads properly
7	Check email for alert to sensor warming.	Log into email.	User receives email alert.	User does not receive email.	Fail	UR.06 Fails need to input email alert system

VCS: Git and Github

https://github.com/SullysMustyRuby/TempTor_sensors.git
https://github.com/SullysMustyRuby/TempTor_server.git