JVoter

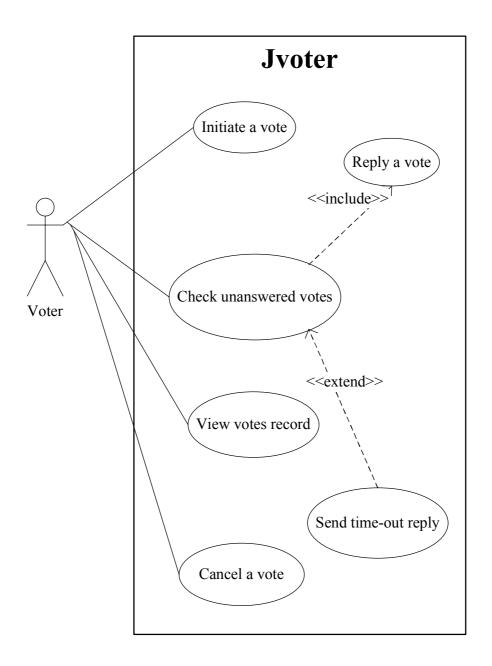
Use Case Model & Specification

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Use Case Model



Use Case Specification

Use Case UC1		Initiate a vote
Description		Initiate a vote to all online users or a group of them
Pre-condition		Voters has successfully connect to the multicast group for JVoter and
		want to initiate a vote
Flow	Basic Path	1. Voter click the initiate button and get a new windows for creating a
of		new vote
Events		2. Voter fill in all details of the vote with a specified deadline and then
		choose all online users or a group of them as the participators
		3. Click the send button and this window will be closed automatically
		after successfully transmission of the vote
		4. Record this vote to the voter's local file
	Alternate Path	2.1 Voter click cancel button to cancel this initiation and this window
		will be closed and back to main windows
	Exceptional	2.1 Voter dose not choose any one as participator and still click send
	Path	button
		2.2 Give voter the warning that this vote will not be send until there is
		at least one participator and then back to the initiate windows
		3.1 Voter disconnect from the multiple group during the transmission
		of the new vote
		3.2 Transmission will be cancelled automatically
Post-con	dition	A new vote was sent to selected online users and recorded in the
		voter's locality file
Use Case UC2		Check unanswered votes
Description		
Descripti	ion	Voter check the unanswered votes sent by other voters
Descripti Pre-cond		Voter check the unanswered votes sent by other voters Voter has received at least one vote and has not replied it yet
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Pre-cond	lition	Voter has received at least one vote and has not replied it yet
Pre-cond Flow	lition	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have
Pre-cond Flow of	lition	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be
Pre-cond Flow of	lition	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator
Pre-cond Flow of	lition	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3
Pre-cond Flow of	lition	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main
Pre-cond Flow of	Basic Path	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main windows
Pre-cond Flow of Events	Alternate Path Exceptional Path	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main windows Null
Pre-cond Flow of	Alternate Path Exceptional Path	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main windows Null Null. If voter choose to reply one vote, and then get a new windows with all
Pre-cond Flow of Events	Alternate Path Exceptional Path	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main windows Null Null. If voter choose to reply one vote, and then get a new windows with all the information of this vote with a default selected option
Pre-cond Flow of Events	Alternate Path Exceptional Path dition	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main windows Null Null. If voter choose to reply one vote, and then get a new windows with all the information of this vote with a default selected option Reply a vote
Pre-cond Flow of Events Post-cond	Alternate Path Exceptional Path dition	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main windows Null Null. If voter choose to reply one vote, and then get a new windows with all the information of this vote with a default selected option Reply a vote Voter reply the vote received from other voters with a selected option
Pre-cond Flow of Events Post-cond Use Case	Alternate Path Exceptional Path dition e UC3	Voter has received at least one vote and has not replied it yet 1. Voter click the unanswered button and get a list of votes which have not been replied and still not exceed the deadline and also not be cancelled by its initiator 2. Voter can choose one of them to reply, then go to Use Case UC3 3. Alternatively voter can choose to reply later and back to main windows Null Null. If voter choose to reply one vote, and then get a new windows with all the information of this vote with a default selected option Reply a vote

Flow	Basic Path	1. Voter select the option which he/she prefer most
of		2. Voter click reply button
Events		3. After the successful transmission of this reply, this windows will be
		closed automatically and back to main windows
		4. Record this reply to the voter's local file
	Alternate Path	2.1 Voter click cancel button to cancel this reply and back to main
		windows without send any reply message to the initiator of this vote
	Exceptional	2.1 Before voter click the reply button, one cancel message has been
	Path	received to cancel this vote
		2.2 Prompt voter that this vote has been cancelled by its initiator and
		do not need to reply and then close the reply windows and back to
		main windows
		3.1 Voter disconnect from the multiple group during the transmission
		of the reply
		3.2 Transmission will be cancelled automatically
Post-con	dition	A vote will be successfully replied to its initiator and removed from
		the unanswered list
Use Case UC4		Send time-out reply
Descript	ion	When a unanswered vote exceed its deadline, Jvoter will reply it
		automatically to its initiator with its default selected option
Pre-cond	lition	The timer in JVoter scan all the unanswered vote periodically and find
		at least one unanswered vote has exceeded its deadline
Flow	Basic Path	1. JVoter get all the information of the vote from voter's locality file
of		2. JVoter send the reply to its initiator with the default selected option
Events	Alternate Path	Null
	Exceptional	Null.
	Path	
Post-con	dition	A vote which exceeded its deadline was removed from the
		unanswered list and sent to its initiator with its default selected option
Use Case UC5		View vote records
Description		Voter view all the votes either initiated by him/her or he/she has
		participated in
Pre-condition		Null
Flow	Basic Path	1. Voter click the view button and get a new windows with the list of
of		all votes he/she has initiated or participated in
Events		2. Voter click one of the votes and get all the information of this vote
	Alternate Path	Null
	Exceptional	Null
	Path	
Post-condition		Null
Use Case UC6		Cancel a vote
Description		Voter passively cancels the votes which are initiated by him/her;
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		because of the early leaving before receive replies from all
		participators.
Pre-condition		There is at least one vote initiated by this voter and has not been
		finished (means still not receive all the replies from participators).
		And the voter exits this program before get all the replies.
Flow	Basic Path	1. Prompt the voter that all the votes which have not been finished
of		will be cancelled
Events		2.JVoter send the cancel message to all the participators
		3. Store the current reply status into the voter's locality file instead of
		waiting for the all replies before storing.
		4. Close the program
	Alternate Path	1.1 Voter choose to back to main windows to wait for the all replies
	Exceptional	Null
	Path	
Post-condition		The votes which are initiated by him/her and have not been finished
		are cancelled. And cancel message have been sent to all participators
		to inform them to ignore this vote.