

# Community Witness API

## Authentication/Authorization

Some endpoints only allow certain users to operate on them (as specified in the "Authorized Users" column below). To authenticate with an endpoint send the request as normal but include a X-API-KEY header containing the users API key. For witnesses this API key is acquired on creation of their account and should be stored by the mobile app for future use. For investigators this can be obtained by contacting the /login endpoint with the investigators username and password, and then the API key should be cached somewhere for use with future requests while the user is logged in.

## Endpoint Table

The following table lists all of the API endpoints and information about how to use them. In this table parts of endpoints and input parameters in curly brackets (like {investigatorId}) indicate query parameters, which should be filled in with their real value in the URL used for the request (like /chat/{reportId} for report 2 should be requested at the URL /chat/2)

Endpoint	HTTP Method	Description	Authorized Users	Input Parameters	Input JSON Example	Output on Success	Output JSON Example
/chat/investigator/{investigatorId}	GET	Returns all the chat messages for the investigator with the given ID	The investigator with the given ID	{investigatorId} - the ID number of the investigator	N/A	A list of ChatMessage objects	[{"id":4,"investigatorId":1,"message":"test message 3","reportId":2,"timestamp":"2021-07-09T21:47:20"}, {"id":5,"investigatorId":1,"message":"from address message unit test","reportId":3,"timestamp":"2021-08-20T00:46:25.092368"}]
/chat/witness/{witnessId}	GET	Returns all the chat messages for the witness with the given ID	The witness with the given ID	{witnessId} - the ID number of the witness	N/A	A list of ChatMessage objects	[{"id":16,"investigatorId":0,"message":"hello","reportId":180,"timestamp":"2021-09-02T01:20:25.089042"}]

/chat/{reportId}	PUT	Creates a chat message regarding the ID'd report	Investigators investigating the report and the witness who created it	{reportId} - the ID number of the report ChatMessageRequest - the data about the chat message to create	{"investigatorId":123,"message":"the chat message","time":"2021-09-02T16:32:00"}	The ID number of the created chat message	123
/evidence	POST	Upload a new piece of evidence to a report	The witness who created the relevant report	NewEvidenceRequest - the data about the new piece of evidence	{"title":"a descriptive title of the evidence","type":"the type of evidence, like picture or video","timestamp":"2021-09-02T16:32:00","reportId":123,"data":"base64 encoded piece of evidence, e.g. base64 encoded png file"}	The ID number of the created evidence	24
/evidence/{evidenceId}	GET	Returns the piece of evidence with the given ID	Any investigator and the witness who created the report	{evidenceId} - the ID number of the evidence	N/A	An Evidence object	{"data":"iVBORw0KGgoAAAANSUHEUgAAAAEAAAAACAQAAAC1HAWCAAAAC0IEQVR42mNk+A8AAQUBAScY42YAAAASUVORK5CYII=","id":327,"reportId":242,"timestamp":"2021-09-02T23:57:00","title":"A sample picture","type":"Picture"}
/investigators	POST	Creates a new investigator account	Anybody	NewInvestigatorRequest - the data about the new account	{"username":"an available username","password":"a	The ID number of the created investigator	15

					password","name":"the investigators real name or name they work with","organization":"the organization the investigator works for","organization Type":"the type of organization the investigator works for","rating":5}		
/investigators/{investigatorId}	GET	Returns the profile information of the investigator with the given ID	Any investigator or witness	{investigatorId} - the ID number of the investigator	N/A	An Investigator object	{"id":2,"name":"Janice Payne","organization":"John has free time. Tony is shopping.", "organizationType":"Anne bought new car. Anne is walking. John bought new car. John has free time. Tony is walking.", "rating":0.28444913029670715,"reports":[57,64]}
/investigators/{investigatorId}	POST	Updates the investigators profile information with new information	The investigator with the given ID	{investigatorId} - the ID number of the investigator UpdateInvestigatorRequest - the data to update the investigator with	{"name":"new name","organization":"new organization","organizationType":"new organization type"}	An HTTP status of 200 OK	N/A
/investigators/self	GET	Returns the profile information of the requesting investigator by	Any investigator	N/A	N/A	An Investigator object	{"id":2,"name":"Janice Payne","organization":"John has

		using their authentication info					free time. Tony is shopping. ","organizationType":"Anne bought new car. Anne is walking. John bought new car. John has free time. Tony is walking. ","rating":0.28444913029670715,"reports":[57,64]}
/investigators/{investigatorId}/take/{reportId}	POST	Marks the given investigator as investigating the given report	The given investigator	{investigatorId} - the ID number of the investigator taking the report {reportId} - the ID number of the report to be taken	N/A	An HTTP status of 200 OK	N/A
/login	POST	Logs in an investigator with their username and password, giving them their API key	Anybody	LoginDetails - the login details of the investigator	{"username":"their username","password":"their password"}	The investigators API key	22ROoBnAeXsqmYkHmO3cmm8eez7HT147
/reportComments	POST	Creates a comment on a report	Any investigator	ReportCommentRequest - the details about the new comment	{"reportId":123,"investigatorId":123,"contents":"the text of the comment"}	The ID of the created comment	32
/reportComments/{reportCommentId}	GET	Returns the report comment with the given ID	Any investigator and the witness who filed the report the comment addresses	{reportCommentId} - the ID of the comment	N/A	A ReportComment object	{"contents":"Anne is walking. Tony has free time. Tony has free time." ","id":15,"investigatorId":35,"reportId":77}
/reports	GET	Returns a list of all the reports in	Any investigator	N/A	N/A	A list of Report objects	[{"comments":[],"description":"foo","

		the database					evidence":[],"id":162,"location":"bar","resolved":false,"timestamp":"2021-07-09T21:44:20","witnessId":0},{ "comments":[], "description":"from unit test","evidence":[], "id":163,"location":"test location","resolved":false,"timestamp":"2021-07-30T01:09:12","witnessId":0}]
/reports	POST	Creates a report	Any witness	NewReportRequest - the data for the new report	{"description":"A description of the event","time":"2021-09-02T17:40:00","location":"the location of the event","witnessId":12}	The ID number of the newly created report	8
/reports/{reportId}	GET	Returns the report with the given ID	Any investigator and the witness who filed the report	{reportId} - the ID number of the report	N/A	A Report object	{"comments":[140],"description":"John has free time. Tony is shopping.", "evidence":[284,285,288,293,294,283],"id":2,"location":"Anne is shopping. Tony has free time.", "resolved":true,"timestamp":"2008-01-25T21:34:54","witnessId":48}
/reports/{reportId}/{status}	PUT	Updates the resolution status of the report with the given ID	The witness who filed the report	{reportId} - the ID number of the report {status} - true to	N/A	An HTTP status of 200 OK	N/A

				mark a report as resolved, false to mark as not resolved			
/usernames/{username}	GET	Checks if the given username is available for use	Anybody	{username} - the username to check	N/A	True if the username is available, false if not	true
/witnesses	POST	Creates a new witness account	Anybody	WitnessRequest - the details about the new witness	{"name":"randomly generated or otherwise anonymous witness name","location":"witnesses general location"}	The newly created witnesses API key	S5NlnmRePxn5Uuwm5Rf3cpwrRksyXQ9H
/witnesses/{witnessId}	GET	Returns the details about the given witness	The given witness	{witnessId} - the ID of the witness	N/A	A Witness object	{"id":1,"location":"John is shopping. John is shopping. John bought new car. John is walking.", "name":"Erick Valentine","rating":0.0,"reports":[180,186,192,214,225,240,176,181,187,199,242,222,233,200,182,188,177,190,195,234,183,173,179,184,236,197,203,238]}
/witnesses/{witnessId}	POST	Updates the changeable parts of a witnesses data	The given witness	{witnessId} - the ID of the witness WitnessRequest - the new details about the witness	{"name":"randomly generated or otherwise anonymous witness name","location":"witnesses general location"}	An HTTP status of 200 OK	N/A

/witnesses/self	GET	Returns the details about the requesting witness by using their authentication info	Any witness	N/A	N/A	A Witness object	{       "id":1,"location":       "John is shopping.       John is shopping.       John bought new car. John is walking.       ",       "name":"Erick Valentine",       "rating":0.0,       "reports":[180,186,192,214,225,240,176,181,187,199,242,222,233,200,182,188,177,190,195,234,183,173,179,184,236,197,203,238]}
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## Further Information

Information on how to install and configure the API can be found in the README file of the API's repo (<https://github.com/bdavis160/CommunityWitnessAPI>) and details about the API code itself can be found in the javadoc comments throughout the code.