Web API Flow

Intent	Method	Route	Data	Cookies Set	Required Cookies	Response

Create Account	POST	/api/auth/register	{
			 'email': '<your_email>',
			 'password': '<your_password>'
			}
				pb_token: '<Token>'
				pb_uid: '<account_id>'
					None	201: Account successfully created
						409: Account with email already exists

Login	POST	/api/auth/login	{
			 'login': '<username or id>',
			 'password': '<your_password>'
			}
				pb_token: '<Token>'
				pb_uid: '<account_id>'
					None	200: Successfully logged in
						403: Unsuccessful login

Update Account	PUT	/api/<username or id>/	(At least one value required)
			{
			 'username': '<new_username>',
			 'email': '<new_email>',
			 'is_private': '<boolean>',
			 'favorite_genres': ['<genre>', …],
			 'favorite_artists': ['<artist>', …]
			}
				None	pb_token	200: Successful update
						401: Token authentication failed – login
						404: Username, id, or attribute not found
						{
						 'message': '<success or error message>'
						}

Create Project	POST	/api/<username or id>/projects/	('name' is required, all else is optional)
			{
			 'name': '<a_name>',
			 'genre': '<a_genre>',
			 'time_signature': '<a_time_sig (x/y)>',
			 'tempo': <integer>,
			 'is_private': '<boolean>',
			 'contributors': {
			  '<account_id>': '<privileges (r/w)>',
			  …
			 }
			}
				None	pb_token	201: Project successfully created
						401: Token authentication failed
						 – login required
						404: Username or id not found
						{
						 'message': '<success or error message>'
						}

Update Project	PUT	/api/<username or id>/projects/<projectname or id>/	(At least one value required)
			{
			 'name': '<new_name>',
			 'genre': '<new_genre>',
			 'time_signature': '<new_time (x/y)>',
			 'tempo': '<integer>',
			 'is_private': '<boolean>',
			 'contributors': {
			  '<account_id>': '<privileges (r/w)>',
			  …
			 }
			}
				None	pb_token
					pb_uid (if you are a contributor)
						200: Successful update
						401: Token authentication failed
						 - login required or no contributor access
						404: Username, id, projectname, project_id, or attribute not found
						{
						 'message': '<success or error message>'
						}

Create Track	POST	/api/<username or id>/projects/<projectname or id>/tracks/	(All attribute data is optional)
			{
			 'name': '<a_name>',
			 'instrument': '<an_instrument>',
			 'volume': <integer>,
			 'pan': <integer>,
			 'mute': <boolean>,
			 'solo': <boolean>,
			 'contributors': {
			  '<account_id>': '<privileges (r/w)>',
			  …
			 }
			}
				None	pb_token
					pb_uid (if you are a contributor of the parent project)
						200: Track successfully created
						401: Token authentication failed
						 - login required or no contributor access
						404: Username, id, projectname, project_id, or attribute not found
						{
						 'message': '<success or error message>'
						}

Update Track	PUT	/api/<username or id>/projects/<projectname or id>/tracks/<trackname or id>/	(At least one attribute is required)
			{
			 'name': '<a_name>',
			 'instrument': '<an_instrument>',
			 'volume': <integer>,
			 'pan': <integer>,
			 'mute': <boolean>,
			 'solo': <boolean>,
			 'contributors': {
			  '<account_id>': '<privileges (r/w)>',
			  …
			 }
			}
				None	pb_token
					pb_uid (if you are a contributor of the track or parent project)
						200: Track successfully created
						401: Token authentication failed
						 - login required or no contributor access
						404: Username, id, or attributes not found
						{
						 'message': '<success or error message>'
						}

Create Recording	POST	/api/<username or id>/projects/<projectname or id>/tracks/<trackname or id>/recordings/	('start_time' and 'end_time' are required)
			{
			 'start_time': <integer>,
			 'end_time': <integer>,
			 'contributors': {
			  '<account_id>': '<privileges (r/w)>',
			  …
			 }
			}
				None	pb_token
					pb_uid (if you are a contributor of the parent track)
						200: Track successfully created
						401: Token authentication failed
						 - login required or no contributor access
						404: Username, id, or attributes not found
						{
						 'message': '<success or error message>'
						}

Update Recording	PUT	/api/<username or id>/projects/<projectname or id>/tracks/<trackname or id>/recordings/<recording_id>	(At least one attribute is required)
			{
			 'start_time': <integer (milliseconds)>,
			 'length': <integer (milliseconds)>,
			 'contributors': {
			  '<account_id>': '<privileges (r/w)>',
			  …
			 }
			}
				None	pb_token
					pb_uid (if you are a contributor of recording or parent track)
						200: Track successfully created
						401: Token authentication failed
						 - login required or no contributor access
						404: Username, id, or attributes not found
						{
						 'message': '<success or error message>'
						}

Create Note	POST	/api/<username or id>/projects/<projectname or id>/tracks/<trackname or id>/recordings/<recording_id>/notes/	(All attribute data is required)
			{
			 'note': '<note_pitch>',
			 'start_time': <integer (milliseconds)>,
			 'length': <integer (milliseconds)>
			}
				None	pb_token
					pb_uid (if you are a contributor of parent recording)
						200: Track successfully created
						401: Token authentication failed
						 - login required or no contributor access
						404: Username, id, or attributes not found
						{
						 'message': '<success or error message>'
						}

Update Note	PUT	/api/<username or id>/projects/<projectname or id>/tracks/<trackname or id>/recordings/<recording_id>/notes/	(At least one attribute is required)
			{
			 'note': '<note_pitch>',
			 'start_time': <integer (milliseconds)>,
			 'release_time': <integer (milliseconds)>
			}
				Note	pb_token
					pb_uid (if you are a contributor of parent recording)
						200: Track successfully created
						401: Token authentication failed
						 - login required or no contributor access
						404: Username, id, or attributes not found
						{
						 'message': '<success or error message>'
						}

Delete Single Entity	DELETE	(any path so long as it ends with the id of an entity)
		
		/api/<username or id>/projects/<projectname or id>/tracks/<trackname or id>/recording/<recordingname or id>/note/<note_id>
			None	None	pb_token
					(contributors may not delete an entity)
						200: Successfully deleted
						401: Token authentication failed
						 - login required
						404: Username, id, or entity_id not found
						{
						 'message': '<success or error message>'
						}

Delete Many Entities	DELETE	(any path so long as it ends with the title of an entity type)
		
		/api/<username or id>/projects/<projectname or id>/tracks/<trackname or id>/recording/<recordingname or id>/note/
			{
			 [
			  <entity_id>,
			  …
			]
			}
				None	pb_token
					(contributors may not delete entities)
						200: Successfully deleted
						401: Token authentication failed
						 - login required
						404: Username, id, or entity id not found
						{
						 'message': '<success or error message>'
						}