

### Uploading a file

Related Requirements	Uploading a file.
Goal In Context	The user uploads a file.
Preconditions	The user must have the application open
Successful End Condition	The user is able to upload the file into the application.
Failed End Condition	The user is not able to upload a file into the application.
Primary Actors	User.
Secondary Actors	N/A
Trigger	The user selects an audio file for visualization.
Main Flow	<ol style="list-style-type: none"><li>1. User opens the application</li><li>2. Selects a file to upload</li><li>3. Confirms the file</li><li>4. Presses button to upload</li><li>5. Upload succeeds</li></ol>
Extensions	The file upload fails.

### Create a project

Related Requirements	Create a project.
Goal In Context	The user creates a project.
Preconditions	The user must have a file uploaded.
Successful End Condition	The user is able to create a project.
Failed End Condition	The user is not able to create a project.
Primary Actors	User.
Secondary Actors	N/A
Trigger	The user creates a project folder.
Main Flow	<ol style="list-style-type: none"><li>1. User uploads a file</li><li>2. User selects files to create a project with</li><li>3. User confirms creation</li><li>4. Project is successfully created</li></ol>
Extensions	Project creation fails.

### Open a project

Related Requirements	Open a project.
Goal In Context	The user opens a project folder.
Preconditions	The user must have a project previously created.
Successful End Condition	User can open the project folder.
Failed End Condition	The user cannot open the project folder.
Primary Actors	User.
Secondary Actors	N/A
Trigger	The user opens a project.
Main Flow	<ol style="list-style-type: none"><li>1. User selects a project folder.</li><li>2. User confirms project folder.</li><li>3. Project folder successfully opens.</li></ol>
Extensions	Project folder opening fails.

### Save project

Related Requirements	User saves project.
Goal In Context	The user saves the current project.
Preconditions	User must have a project previously created.
Successful End Condition	User successfully saves the project.
Failed End Condition	User fails to save the project.
Primary Actors	User.
Secondary Actors	N/A
Trigger	The user attempts to save a project.
Main Flow	<ol style="list-style-type: none"><li>1. User saves current project</li><li>2. Project is successfully saved</li></ol>
Extensions	Project is unsuccessfully saved.

### Import layer

Related Requirements	Import layer.
Goal In Context	Import a specific layer (drums, vocal, etc.) into the application.
Preconditions	User must have the specified layer to import.
Successful End Condition	The layer is successfully imported into the application.
Failed End Condition	The layer is not successfully imported into the application.
Primary Actors	User.
Secondary Actors	N/A
Trigger	The user selects a file to upload.
Main Flow	<ol style="list-style-type: none"><li>1. Specific layer is selected</li><li>2. Layer is imported</li><li>3. Successfully recognized as the layer it was described as</li></ol>
Extensions	Layer upload fails, layer is not successfully recognized.

### Select layer to process

Related Requirements	Select layer to process.
Goal In Context	Select specific layer(s) of sound from the audio file to visualize.
Preconditions	The user has successfully uploaded a file.
Successful End Condition	The layers have been processed successfully.
Failed End Condition	The layers have not been processed successfully.
Primary Actors	User.
Secondary Actors	N/A
Trigger	User uploads a file.
Main Flow	<ol style="list-style-type: none"><li>1. User uploads a file</li><li>2. File is processed</li><li>3. Specific layer is selected to visualize</li></ol>
Extensions	File upload fails, layers are not successfully recognized.

### Open program

Related Requirements	Open program.
Goal In Context	Start the application.
Preconditions	Must have the application compiled/installed on your system.
Successful End Condition	The application successfully opens.
Failed End Condition	The application does not open.
Primary Actors	User.
Secondary Actors	N/A
Trigger	The user runs the program via command line or double clicks the file.
Main Flow	<ol style="list-style-type: none"><li>1. User clicks the application</li><li>2. Application successfully opens</li></ol>
Extensions	Application fails to open

### Exit program

Related Requirements	Exit Program.
Goal In Context	Exit the application.
Preconditions	Must have the application open.
Successful End Condition	The application successfully exits.
Failed End Condition	The application does not exit.
Primary Actors	User.
Secondary Actors	N/A
Trigger	The user selects the exit button.
Main Flow	<ol style="list-style-type: none"><li>1. The user selects the exit button</li><li>2. The application exits.</li></ol>
Extensions	The application does not successfully exit.