Iteration 1				
From:	Oct 20, 2025			
To:	Nov 16, 2025			
Iteration Goals:	Build AI Pipeline to Classify Bat Calls			
	Build UI to access AI Classifier			
	Create database to save classified & unclassified bat call files			

Use Case/Issue	Task	Estimated Effort	Assigned to	Status
Setup	Database schema for sound detector location	2 Hours	Zach Campbell	Done
	DB schema for bat species DB	2 Hours	Stryder Schossberger	Done
	DB schema for classification results	2 Hours	Stryder Schossberger	Done
	Simple UI (streamlit)	8 Hours	Elijah Yoo	Done
	Initialize GitHub repo, add README, requirements.txt, folder structure	5 Hours	Rachel Rajamoney	Done
Testing	Verify upload → classify → download report flow works end-to-end.	1 Hour	Riley Phan	Done
Use case 1: upload call files	Create upload form accepting only .wav files -> validate file type and display error for invalid uploads.	5 Hours	Riley Phan	Done
	Implement files/upload and files/save to store files temporarily for classification	3 Days	Riley Phan	Done
	Create sonograms	3 Hours	Riley Phan	Done
	Add confimation message in UI	1 Hour	Riley Phan	Done
Use case 2: classify	Implement basic ML stub (placeholder model using random/prototype probabilities)	48 Hours	Rachel & Mati	Done
	Build /classify API route to accept a file ID and return {species, confidence} JSON	48 Hours	Rachel & Mati	Done
	Connect UI 'Classify' button → endpoint and display results on page	5 Hours	Mati Davis	Done
	Log results (filename, species, confidence) to local CSV for later export	48 Hours	Rachel Rajamoney	Done
Use case 6: generate classification results	Create 'Download Report' button that converts CSV results into downloadable .csv file.	3 Hours	Ally Schmidt	Done
	Ensure report includes species name, confidence, and timestamp.	3 Hours	Ally Schmidt	Done
Use case 8: update database	Connect backend to MySQL database	8 Hours	Zach & Stryder	Done
	Implement /admin/update_calls API route	8 Hours	Zach & Stryder	Done
	Validate and sanitize admin input	9 Hours	Zach & Stryder	Done
Use case 9: add species to location	Create /admin/add_species route	8 Hours	Zach & Stryder	Done
	Build form with species and location selectors	8 Hours	Zach & Stryder	Done
	Check for duplicates before insertion	9 Hours	Zach & Stryder	Done
Use case 10: add new location	Create /admin/add_location route	8 Hours	Zach & Stryder	Done
	Design frontend form	9 Hours	Zach & Stryder	Done
	Validate fields and check for existing names	10 Hours	Zach & Stryder	Done

Iteration 2				
From:	Jan 12, 2026			
To:	Feb 15, 2026			
Iteration Goals:	Deploy system online with authentication			
	Connect ML model to server and database			
	Begin model training			

Use Case/Issue	Task	Estimated Effort	Assigned to	Status
Authorization Authentication	Setup a login page	1 hr	Riley Phan	Done
	Assign admin permissions	3 hrs	Riley Phan	Done
	Assign user permissions	3 hrs	Riley Phan	Done
Setup	Setup DB server online	4 hrs	Zach Campbell	Done
	Setup model online	1 hr	Riley Phan	Done
Use case 4	Display list of unknown-flagged files to researcher	3 hrs	Elijah Yoo	Done
	Update call DB with researcher's manual classification	2 hrs	Zach Campbell	Done
	Connecting DB, Modell, and UI	8 hrs	Stryder Schossberger	Done
Use case 5	Generate and display spectrograms if requested	10 hrs	Mati Davis	Done
	Display classification results with confidence scores	1 hr	Elijah Yoo	Done
	Export results to CSV with species, confidence, timestamp	2 hrs	Mati & Riley	Done
Use Case 7	Admin generates a report of the calls database	1 hr	Zach Campbell	Done
	Export calls from database to CSV	1 hr	Mati & Riley	Done
Training Model	Optimize Spectogram Visualization	5 hrs	Mati & Riley	Done
	Minimizing noise in call files	7 hr	Mati & Ally	Done
	Create Frequency Categories	4 hr	Mati Davis	Done
	Connect ML Model to Server and Database	5 hr	Mati, Zach, Stryder	Done
	Begin Training	Ongoing	Mati, Rachel, Riley	Done
	Begin model testing/validation and optimization	Ongoing	Ally Schmidt	Done

Iteration 3				
From:	Feb 16, 2026			
To:	Mar 8, 2026			
Iteration Goals:	Implement confidence threshold adjustment			
	Begin location/detector-specific model training			
	Finalize audit workflow			

Use Case/Issue	Task	Estimated Effort	Assigned to	Status
Use Case 11	Build admin UI to adjust confidence threshold per species	1 hr	Elijah Yoo	Done
	Validate threshold changes and apply to classification output	1 hr	Mati Davis	Done
	Push threshold settings to database	1 hr	Zach Campbell	Done
Training Model	Add support for training on subset of data by location/detector	12 hrs	Mati & Riley	Done
	Admin UI to select location/detector for targeted training	6 hrs	Elijah Yoo	Done
	Continued model training and evaluation	Ongoing	Mati & Riley	Done
	Hyperparameter optimization	10 hrs	Ally Schmidt	Done
	Model testing/updates as needed	Ongoing	Mati, Riley, & Ally	Done
Miscellaneous	Additional database changes as needed	Variable	Zach Campbell	Done
	Additional UI changes as needed	Variable	Elijah Yoo	Done
	Continuing model/database/UI connections as needed	Variable	Stryder Schossberger	Done

Iteration 4				
From:	Mar 9, 2026			
To:	Apr 12, 2026			
Iteration Goals:	Finish location/detector specific model training Bug fixes and support as needed (if requested by client)			

Use Case/Issue	Task	Estimated Effort	Assigned to	Status
Training Model	Finish and validate location/detector-specific model training	10 hrs	Mati & Riley	Done
	Final end-to-end testing	Variable	Team	Done
Miscellaneous	Bug fixes and updates as needed	Variable	Team	Done