

ID	Story	Estimate(hours)
	1 Set up DB in docker container	1
	2 Design DB Schema	5
	3 Set up SQLAlchemy	1
	4 Implement database structure and make it accessible	5
	5 FastAPI install on docker container	1
	6 Basic get and post request	3
	7 FastAPI calls to get and set drone data	3
	8 Backend integration with db	2
	9 MavLink installed and drone control research	3
	10 MavProxy setup and flight controller emulator	2
	11 Mavlink standalone script that flies to waypoint in sim	2
	12 Mavlink integrated with backend	4
	13 React app base created and functioning	1
	14 Drone select drop down screen #1	2
	15 Map api selected and component implemented	3
	16 Map svg overlay to display position of selected vehicle	3
	17 React app gauges for altitude and velocity	2
	18 React app "nav ball" for roll, pitch, yaw of vehicle	2
	19 Front end screen 1 integration with backend and db	2
	20 Mavlink test on hardware	6
	21 Front end screen 2 drone list	1
	22 Front end screen 2 Path design component	8
	23 Front end screen 2 save/load paths for selected vehicle	3
	24 Front end screen 2 swarm paths component	4
	25 Backend support for screen 2 implemented	3
	26 Backend integrated with screen 2	3
	27 Emergency land procedure	4
	28 Teleop control of vehicles	5
	29 Screen 3 connection manager	6
	30 Screen 3 live data streaming component	8
	31 Test swarm planning in simulation	6
	32 Full shakedown in simulation	10
	33 Full shakedown on hardware	15

Priority (1-5)	Sprint When Finished	Completed
1		1 Done
1		1 Done
1		1 Done
1		1 Done
1		1 Done
1		1 Done
1		1 Done
2		1 In Progress
1		1 Done
1		1 Done
1		1 Done
1		1 In Progress
1		1 Done
1		1 Done
1		1 Done
2		1 In Progress
1		1 Done
2		1 In Progress
2		1 In Progress
1		1 In Progress
1		2
1		2
1		2
2		2
2		2
2		2
1		2
1		2
2		3
2		3
2		3
1		3
1		3