

WifiScan	Timestamp (timestamp), rssi (float), MAC (str/bytes), EndPoint*									
DevicePosition	Timestamp (timestamp), X-position (int), y-position (int), z-position (int)									
Heatmap	Not sure yet									
Preferences	Language (str), darkmode (boolean), User*									
API specification										
Client										
Component Name	Responsibility	Call server API	Data Needed							
loginStatus	Displays login status with user credentials	FALSE	validateUser == True							
validateUser	Validates user credentials before using the system	TRUE	User.credentials							
unauthUser	Displays an error message for an unauthorized user	FALSE	validateUser == True							
endpointStatus	Displays endpoint status based on data	TRUE	endpoint.status							
floorMapChange	Changes floor map based on the file upload	TRUE	client.floormap							
accessibilityOptions	Applies alternative text to images and video	FALSE	accessibilityButton == True							
Server										
Component Name	Responsibility	Call server API	Data needed							
ping	Creates a query for location and time stamp for coordinates	TRUE	location, timestamp							
status_check	Monitor endpoint health	TRUE	endpoint.status							
detect_restore	Detects database restarts and restores last valid state of user progress	TRUE	user_progress, db_status							
check_time	End session after certain amount of time of inactivity, track last activity timestamp, manage session	TRUE	last_activity, session_length							
Server API										
Function	Signature									
CREATE	createUser(email, password)									
READ	getEndpointStatus(endpointID)									
READ	getHeatmap(floorplanID)									
UPDATE	updateFloorMap(file)									
DELETE	removeEndpoint(endpointID)									
Endpoint										
Component Name	Responsibility	Call Server API	Data Needed							
config	Load the configuration data of the endpoint from a local file	FALSE	endpoint_ID, server_URL, API_key							
scanner	Captures Wi-Fi scan data and packages it	FALSE	MAC, RSSI, timestamp							
health_monitor	Detects the devices current health	FALSE	Dongle_presence, disk_usage, CPU_stats, memory_stats, online_status							
local_log	Contains operational events	FALSE	Auth_events, errors							
auth_system	Verifies endpoint successfully connects to the server	TRUE	API_key							