



WifiScan	Timestamp (timestamp), rssi (float), MAC (str/bytes), <b>EndPoint*</b>										
DevicePosition	Timestamp (timestamp), X-position (int), y-position (int), z-position (int)										
Heatmap	Not sure yet										
Preferences	Language (str), darkmode (boolean), <b>User*</b>										
<b>API specification</b>											
<b>Client</b>											
<b>Component Name</b>	<b>Responsibility</b>			<b>Call server API</b>	<b>Data Needed</b>						
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						
<b>Server</b>											
<b>Component Name</b>	<b>Responsibility</b>			<b>Call server API</b>	<b>Data needed</b>						
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 <b>user progress</b>			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						
<b>Server API</b>											
<b>Function</b>	<b>Signature</b>										
CREATE	createUser(email, password)										
READ	getEndpointStatus(endpointID)										
READ	getHeatmap(floorplanID)										
UPDATE	updateFloorMap(file)										
DELETE	removeEndpoint(endpointID)										
<b>Endpoint</b>											
<b>Component Name</b>	<b>Responsibility</b>			<b>Call Server API</b>	<b>Data Needed</b>						
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						