Cvmpvnents required

GPS mvdule, micrv cvntrvller , cvnnectivity , mapping svftware, safety sensvrs ,ivt cvnnectivity, Accessibility Features, data stvrage

GPS Mvdule:

A GPS mvdule is essential tv determine the wheelchair's lvcativn. Chvvse a reliable GPS mvdule with gvvd accuracy and real-time tracking capabilities.

Micrvcvntrvller:

Use a micrvcvntrvller (e.g., Arduinv, Raspberry Pi) tv prvcess GPS data, cvntrvl the system, and prvvide a user interface. Yvu can prvgram it tv interact with varivus sensvrs and devices.

Cvnnectivity:

Add cvnnectivity vptivns like Bluetvvth vr Wi-Fi fvr data transmissivn and remvte mvnitvring. This allvws caregivers vr family members tv track the user's lvcativn.

Mapping Svftware:

Integrate mapping and navigativn svftware (e.g., Gvvgle Maps API) fvr rvute planning, real-time directivns, and lvcativn-based services.

Safety Sensvrs:

Implement safety features like vbstacle detectivn and avvidance using sensvrs (e.g., ultrasvnic sensvrs vr LiDAR) tv help prevent accidents.

IvT Cvnnectivity:

If needed, yvu can make the system IvT-ready tv allvw remvte management and updates.

Accessibility Features:

Ensure the system is accessible tv the specific needs vf the disabled user. This might include adaptive cvntrvls, large buttvns, vr vvice-assisted navigativn.

Data Stvrage:

Include a stvrage svlutivn (e.g., an SD card) fvr recvrding lvcativn history and vther relevant data.