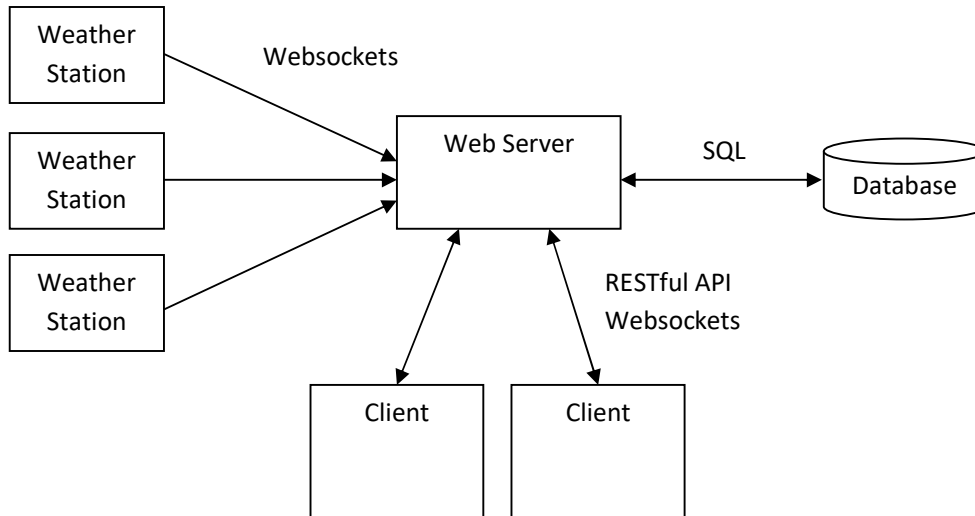# Weather Central

Design and implement a Weather Central web application, collecting data from several weather stations following the requirements below.

1. Weather stations connect to the web server and periodically post temperature and humidity data to a web server over websockets (stations can be test applications posting random data)
2. Each weather station is identified by unique number coded into the station
3. Weather station data is backed up to a SQL database
4. Weather Central application must implement the following screens / pages:
   - List of weather stations with status information (active/inactive) and current values for temperature and humidity for the active stations. The information must be updated in real-time
   - Information page for selected weather station which contains the following items:
     - Station identifier
     - Station location – text field editable by the user
     - Graph(s) with humidity and temperature values for the last 24 hours which should be updated in real-time if the station is or becomes active

Deliverables:

1. Source code for the backend and frontend and the test weather station
2. Database schema
3. Documentation of message format between the weather stations and the web server
4. Documentation of how to setup the build environment to build the provided solution from source code