Software Requirements Specifications

Title :

Develop an application using BeagleBone Black / ARM Cortex A5 development board for setting IP address.

Scope :

This document describes the requirements for client-server system using BeagleBone Board.

Functional requirements:

1. The server should be made on the embedded processor, in this case, the Beagle bone Black.

2. The server should be functioning when the client is expected to connect.

3. Two way communication should be possible.

4. User should login with proper credentials.

Non-functional requirements :

1. GUI may be provided.

2. Connection timeout if there is no communication for a long time.

3. Connection record should be maintained.

4. Client should get the server status periodically.

Hardware requirements :

1. Beagle Bone Black Board

2. USB Cable

Software requirements :

1. OS – Ubuntu

Constraints :

1. Connection timeout.

2. Server should be running before client.

3. Maximum file size.

4. Response time.

5. Power constraint.

Conclusion: The client server networking system is successfully implemented.