**Computer Organization**

**Architecture diagram:**

**Detailed description of the implementation:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | OpCode |  |  | function |
| Addu | 000 000 |  |  | 100 001 |
| Addi | 001 000 |  |  | ----------- |
| Subu | 000 000 |  |  | 100 011 |
| AND | 000 000 |  |  | 100 100 |
| OR | 000 000 |  |  | 100 101 |
| slt | 000 000 |  |  | 101 010 |
| sra | 000 000 |  |  | 000 011 |
| srav | 000 000 |  |  | 000 111 |
| beq | 000 100 |  |  | ----------- |
| bnq | 000 101 |  |  | ----------- |
| lui | 001 111 |  |  | ----------- |
| ori | 001 101 |  |  | ----------- |
| sltiu | 001 011 |  |  | ----------- |
|  |  |  |  |  |

**Problems encountered and solutions:**

**Lesson learnt (if any):**