# Step 2: Organize and Describe the Data

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| **Component** | **Inputs** | **Outputs** | **Sample Value** | Constraints |
| Species | Species type (preferred portion size) | Portion details | Cat. | Portion size |
| Hopper Level Sensor | Current food level | Food level status | OK = 70%.  Low = sign 5%. | Send alert if food is below 5% |
| Control Logic | Time, Portion details, Level status | Sending alerts, signal to servo motor, etc. | Alert notification | Attempts to dispense 4 times and then sending alert |
| Feed Schedule | Feeding schedule information | Feeding times |  | Feeding times are 3 times in one day |
| Error | Error conditions | Alert to staff | Food not dispensed | Sends only sms |
| digital Logger | Alerts | Log entry | Saved log | Stores 12 logs at a time |
| RTC | Current time | Sends to control Logic | 6:15 | Displays time in 24H format |
| Bowl and load cell. | Mass of bowl before feeding. | Mass of bowl after feeding. | 40g | Range of measurement from 0g-3000g |