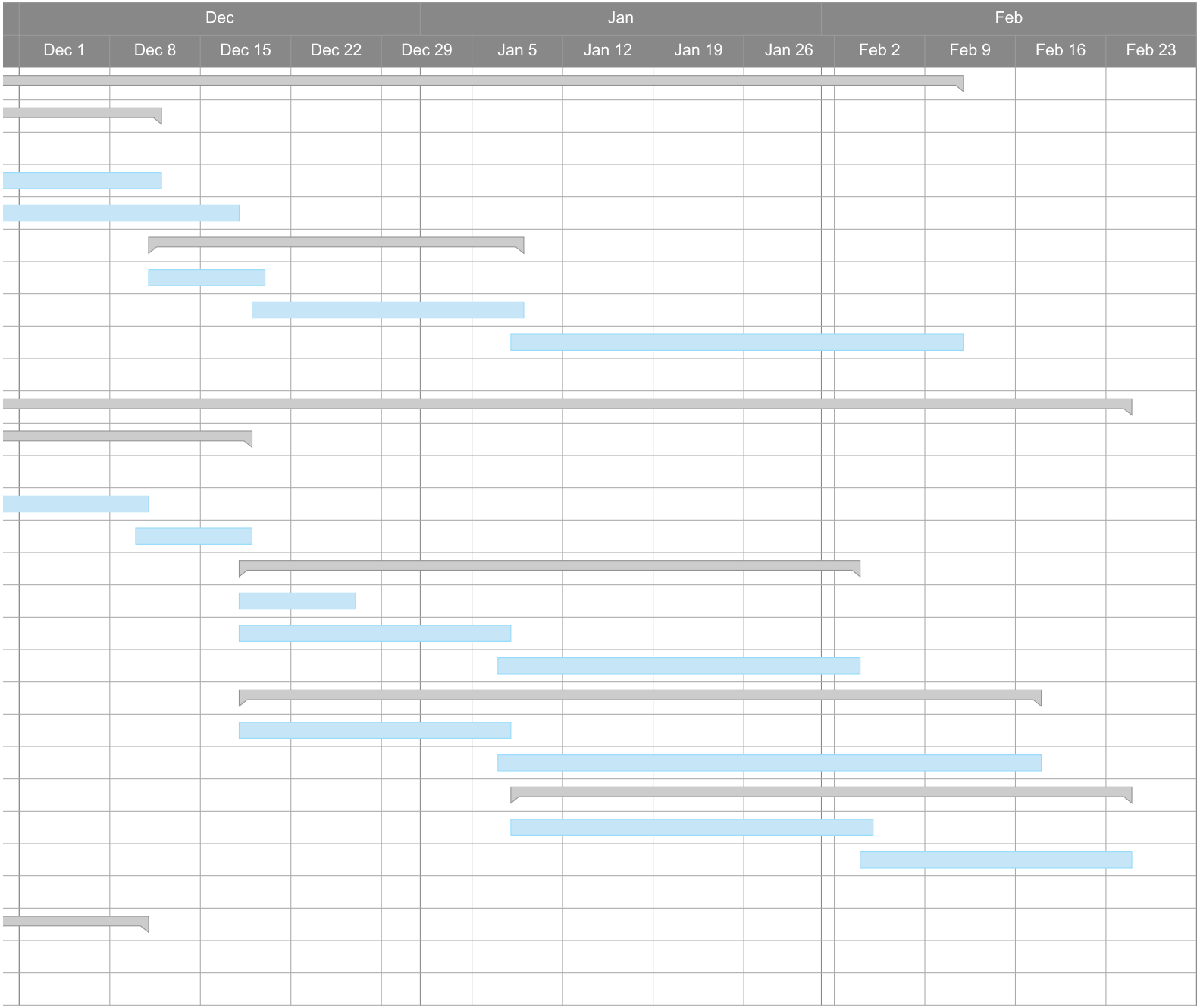
Proposal Report

smartsheet

	Task Name	Oct				Nov				
		Sep 29	Oct 6	Oct 13	Oct 20	Oct 27	Nov 3	Nov 10	Nov 17	Nov 24
1	**Mechanical Design**									
2	Cat food active / deactive									
3	Gate Design									
4	Gate Test									
5	Case design and construction									
6	Integration of food mechanism									
7	Design of food framework									
8	Seating of the food mechanism									
9	Consolidation and error fixing									
10										
11	**Electronic Design**									
12	Dog deterring system									
13	Design of possible systems									
14	Implementation of possible designs									
15	Test of the product									
16	Battery selection and placement									
17	Selection and testing of the possible battery choices									
18	Safety and regulation adjustments									
19	Integration to the system									
20	Design of power electronics									
21	Choice of regulators and wiring									
22	Implementation and system integration of power electronics									
23	Sensor and microprocessor selection and integration									
24	Selecting and purchasing true sensors									
25	Integrating the sensors into the microprocessor									
26										
27	**Back-end software framework**									
28	Transfer of the data									
29	Transferring video data									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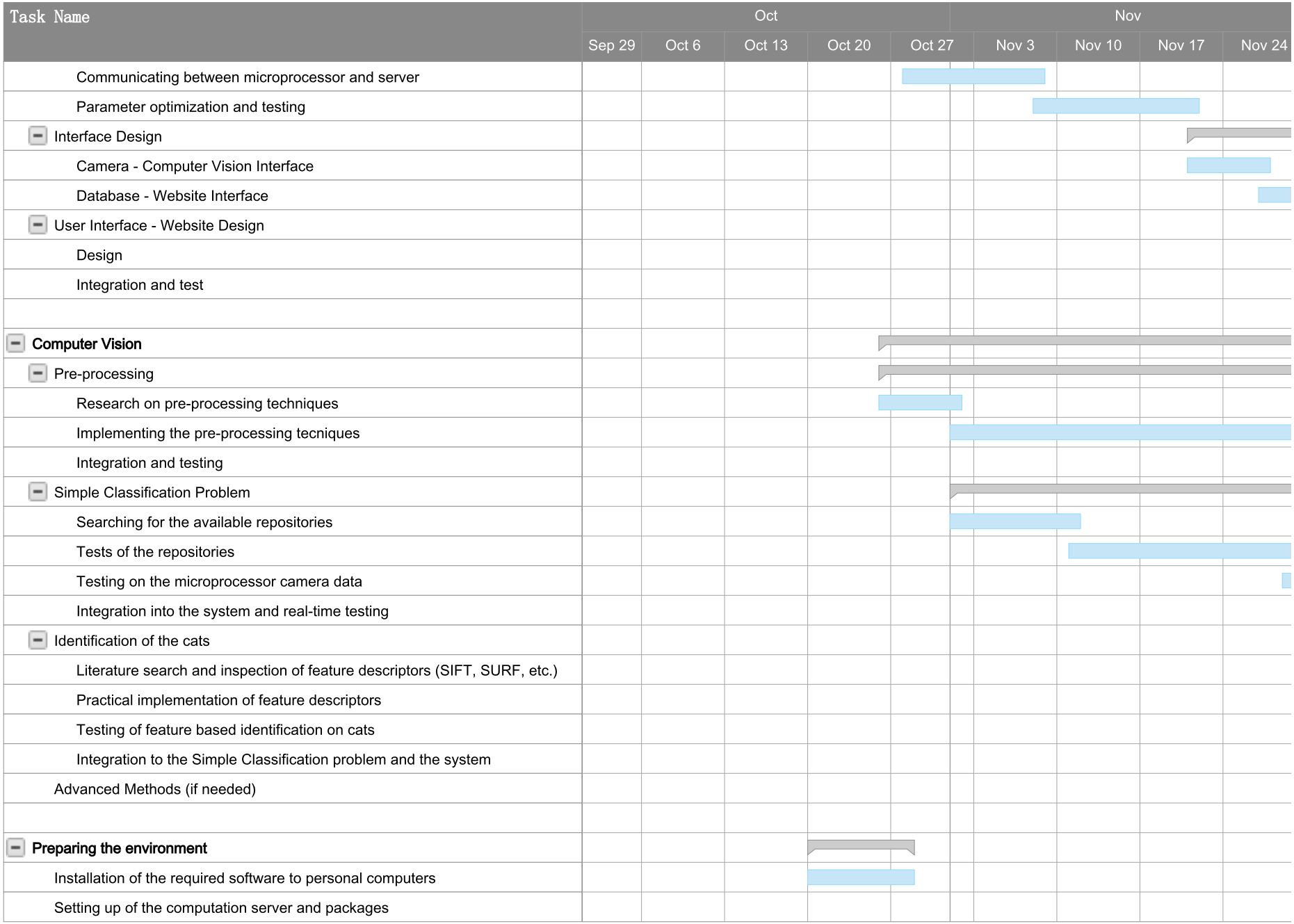
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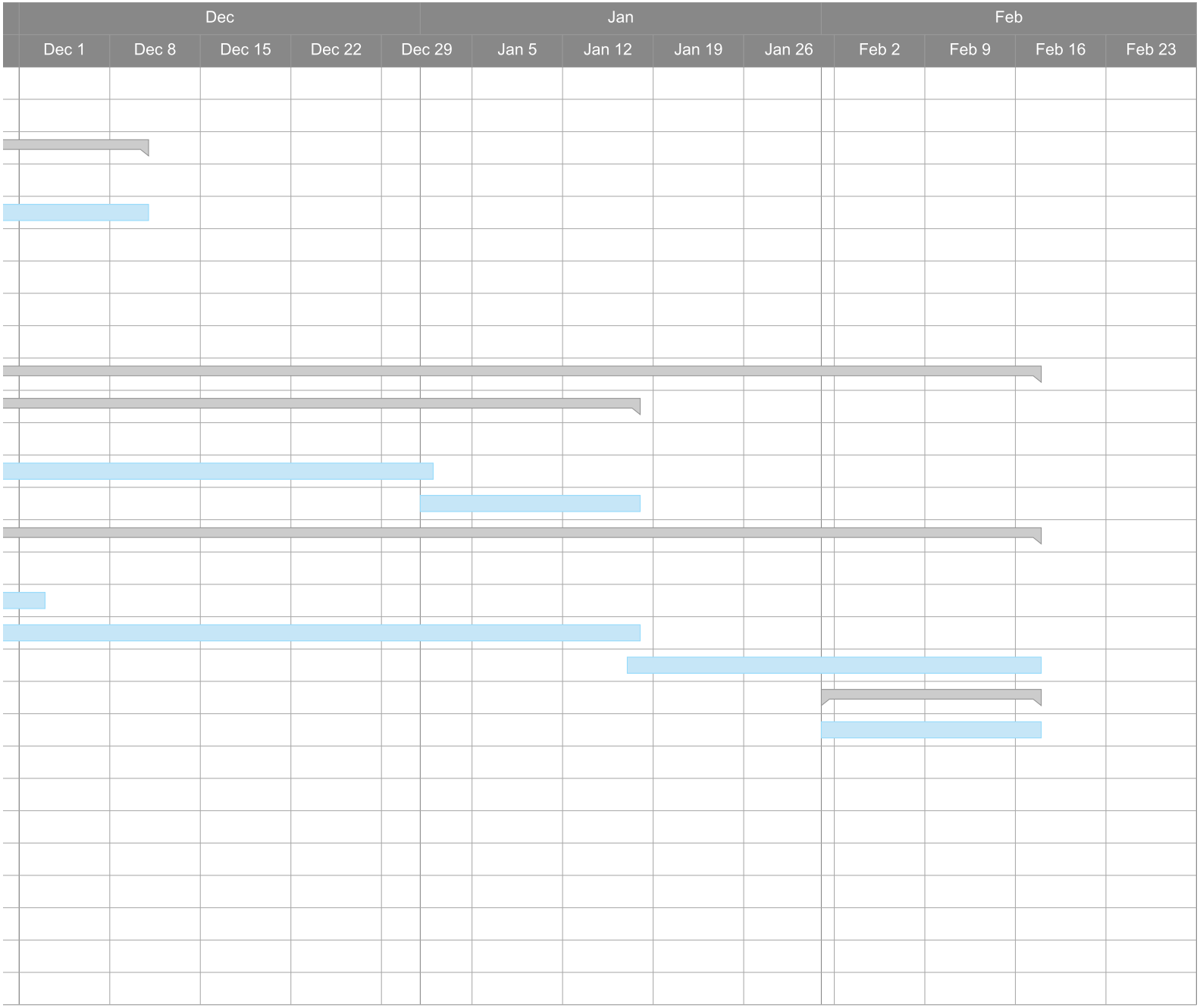
30 Communicating between microprocessor and server
31 Parameter optimization and testing
32 Interface Design
33 Camera - Computer Vision Interface
34 Database - Website Interface
35 User Interface - Website Design
36 Design
37 Integration and test
38
39 Computer Vision
40 Pre-processing
41 Research on pre-processing techniques
42 Implementing the pre-processing tecniques
43 Integration and testing
44 Simple Classification Problem
45 Searching for the available repositories
46 Tests of the repositories
47 Testing on the microprocessor camera data
48 Integration into the system and real-time testing
49 Identification of the cats
50 Literature search and inspection of feature descriptors (SIFT, SURF, etc.)
51 Practical implementation of feature descriptors
52 Testing of feature based identification on cats
53 Integration to the Simple Classification problem and the system
54 Advanced Methods (if needed)
55
56 Preparing the environment
57 Installation of the required software to personal computers
58 Setting up of the computation server and packages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