

# Chapter 4

## Analysis Modeling

### 4.1 Activity Diagram

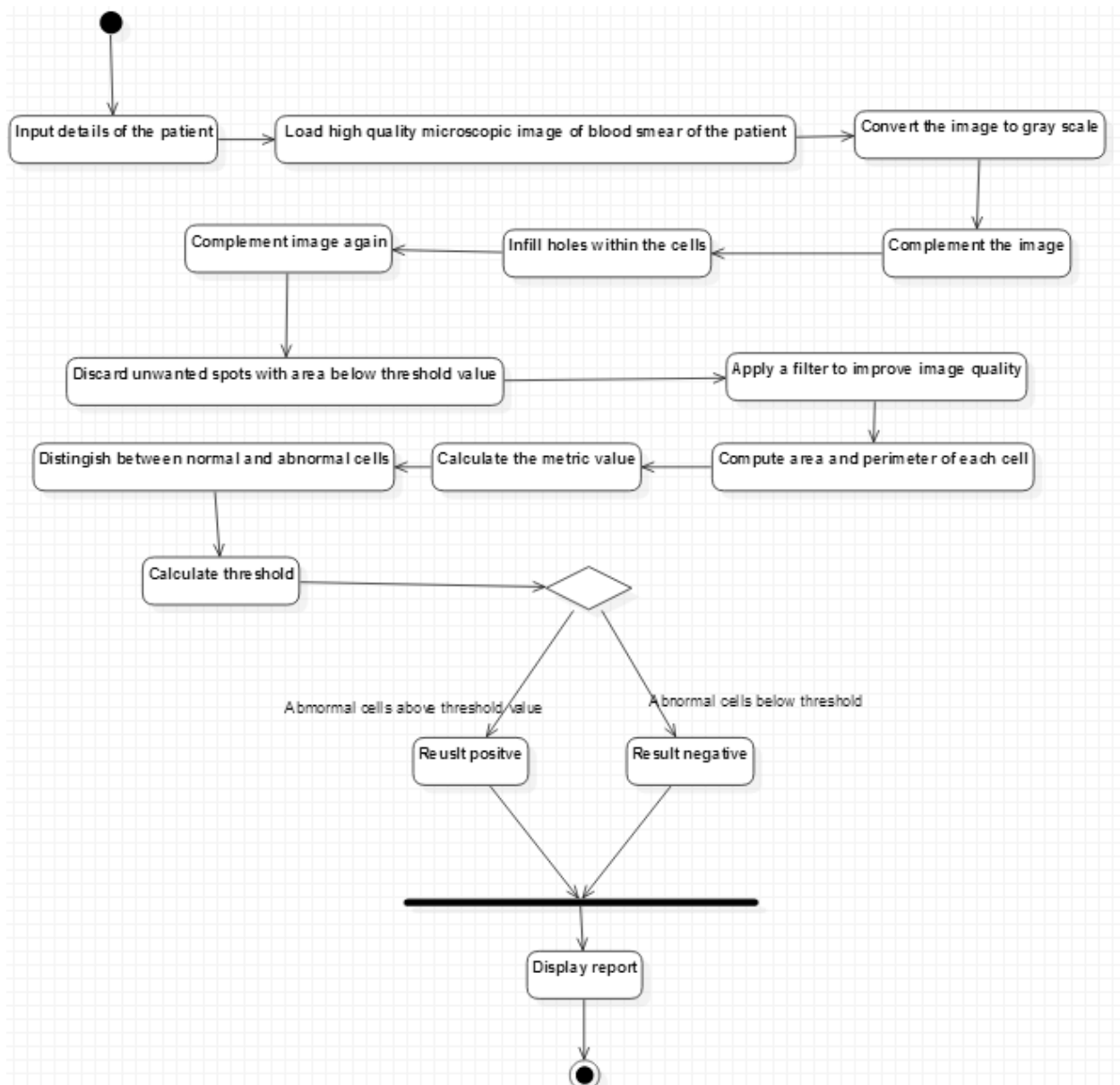


Fig. 4.1.1 Activity Diagram

## 4.2 Functional Modeling

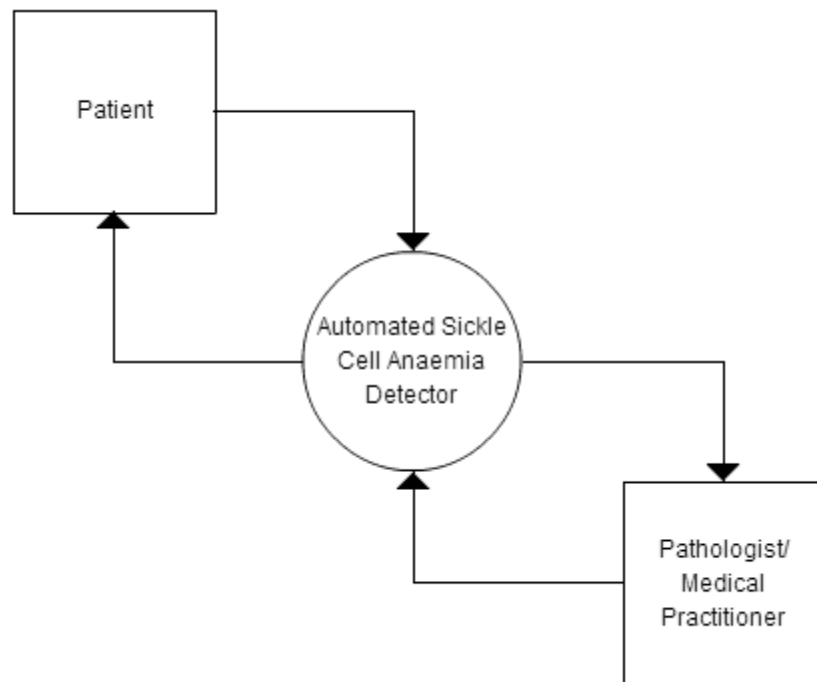


Fig. 4.2.1 Data Flow Diagram (Level 0)

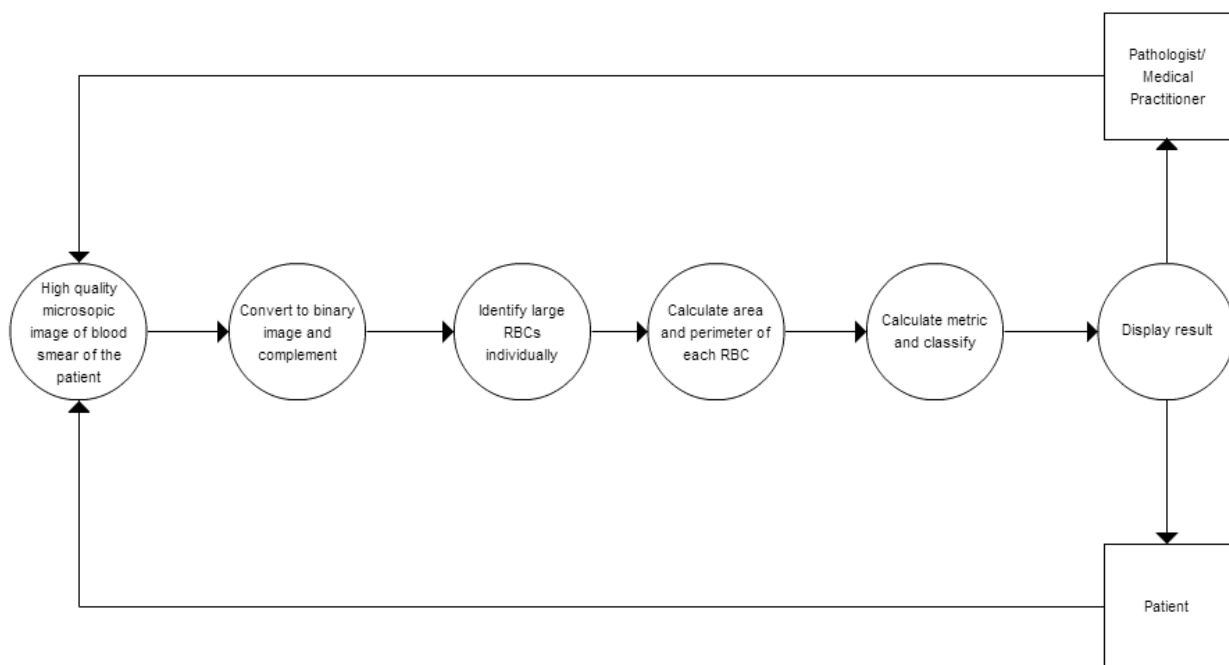


Fig. 4.2.2 Data Flow Diagram (Level 1)

### 4.3 Timeline chart

ID		Task Name	Duration	Start	Finish	Predecessors
1		<b>Documentation</b>	<b>172 days</b>	<b>Thu 8/7/14</b>	<b>Fri 4/3/15</b>	
2		<b>Understanding the paper</b>	<b>12 days</b>	<b>Thu 8/7/14</b>	<b>Fri 8/22/14</b>	
3		Studied the base paper	2 days	Thu 8/7/14	Fri 8/8/14	
4		Studied the algorithm	4 days	Mon 8/11/14	Thu 8/14/14	3
5		Referred other papers	3 days	Mon 8/18/14	Wed 8/20/14	4
6		Problem formulation	1 day	Thu 8/21/14	Thu 8/21/14	5
7		Scope and need of project	1 day	Fri 8/22/14	Fri 8/22/14	6
8		<b>Hardware Analysis</b>	<b>3 days</b>	<b>Thu 8/28/14</b>	<b>Mon 9/1/14</b>	
9		Requirement gathering	2 days	Thu 8/28/14	Fri 8/29/14	7
10		Analyse the requirements	1 day	Mon 9/1/14	Mon 9/1/14	9
11		<b>Literature Review</b>	<b>4 days</b>	<b>Tue 9/2/14</b>	<b>Fri 9/5/14</b>	
12		Survey on the topic	4 days	Tue 9/2/14	Fri 9/5/14	10
13		<b>System Analysis</b>	<b>4 days</b>	<b>Mon 9/8/14</b>	<b>Thu 9/11/14</b>	
14		Functional Requirements	1 day	Mon 9/8/14	Mon 9/8/14	12
15		Non-Functional Requirements	1 day	Tue 9/9/14	Tue 9/9/14	14
16		Specific Requirements	1 day	Wed 9/10/14	Wed 9/10/14	15
17		Use Case diagram	1 day	Thu 9/11/14	Thu 9/11/14	16
18		<b>Design</b>	<b>10 days</b>	<b>Fri 9/12/14</b>	<b>Thu 9/25/14</b>	
19		Activity diagram	1 day	Fri 9/12/14	Fri 9/12/14	17
20		Functional Modelling (DFD)	2 days	Mon 9/15/14	Tue 9/16/14	19
21		Architecture	3 days	Wed 9/17/14	Fri 9/19/14	20
22		Circuit design	2 days	Mon 9/22/14	Tue 9/23/14	21
23		User interface	2 days	Wed 9/24/14	Thu 9/25/14	22
24		<b>Synopsis</b>	<b>6 days</b>	<b>Fri 9/26/14</b>	<b>Fri 10/3/14</b>	
25		White book synopsis	6 days	Fri 9/26/14	Fri 10/3/14	23
26		<b>Implementation Plannig</b>	<b>25 days</b>	<b>Thu 1/15/15</b>	<b>Wed 2/18/15</b>	
27		Planning the modules	12 days	Thu 1/15/15	Fri 1/30/15	25
28		Gathering the test data	6 days	Mon 2/2/15	Mon 2/9/15	27
29		Checking the feasibility of the modules	7 days	Tue 2/10/15	Wed 2/18/15	28
30		<b>Implementation</b>	<b>24 days</b>	<b>Thu 2/19/15</b>	<b>Tue 3/24/15</b>	
31		Coding	24 days	Thu 2/19/15	Tue 3/24/15	29
32		<b>Testing</b>	<b>8 days</b>	<b>Wed 3/25/15</b>	<b>Fri 4/3/15</b>	
33		Testing the project	8 days	Wed 3/25/15	Fri 4/3/15	31

Figure 4.1 TimeLine Chart

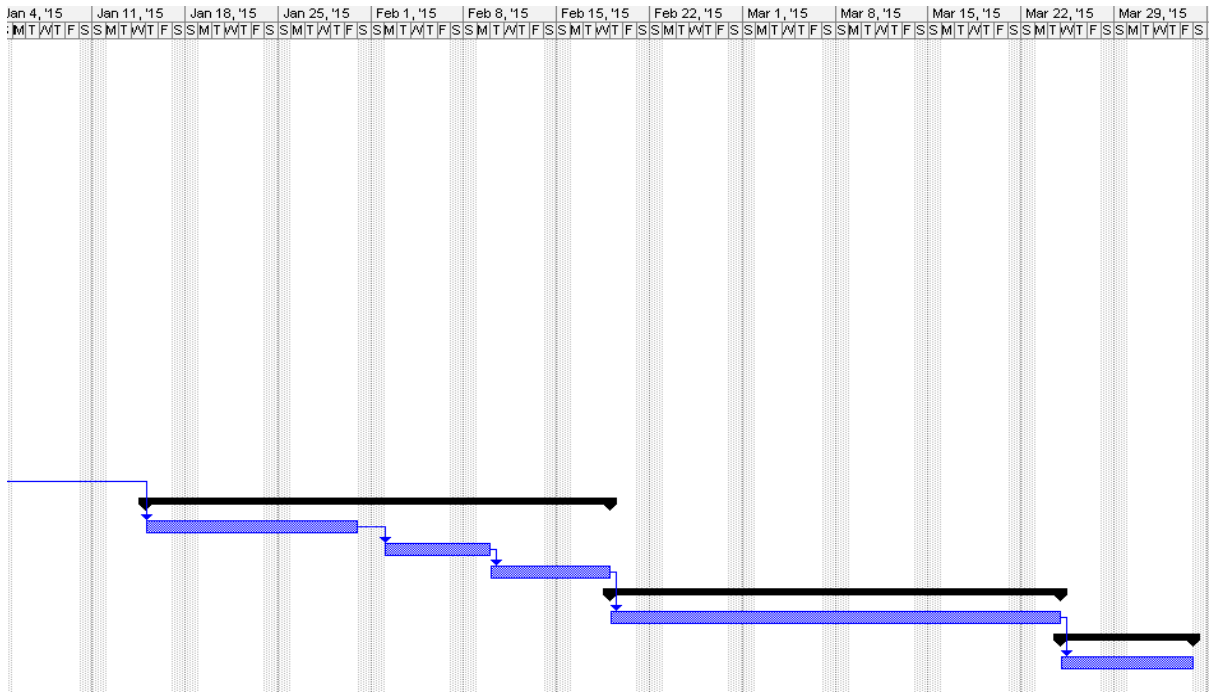
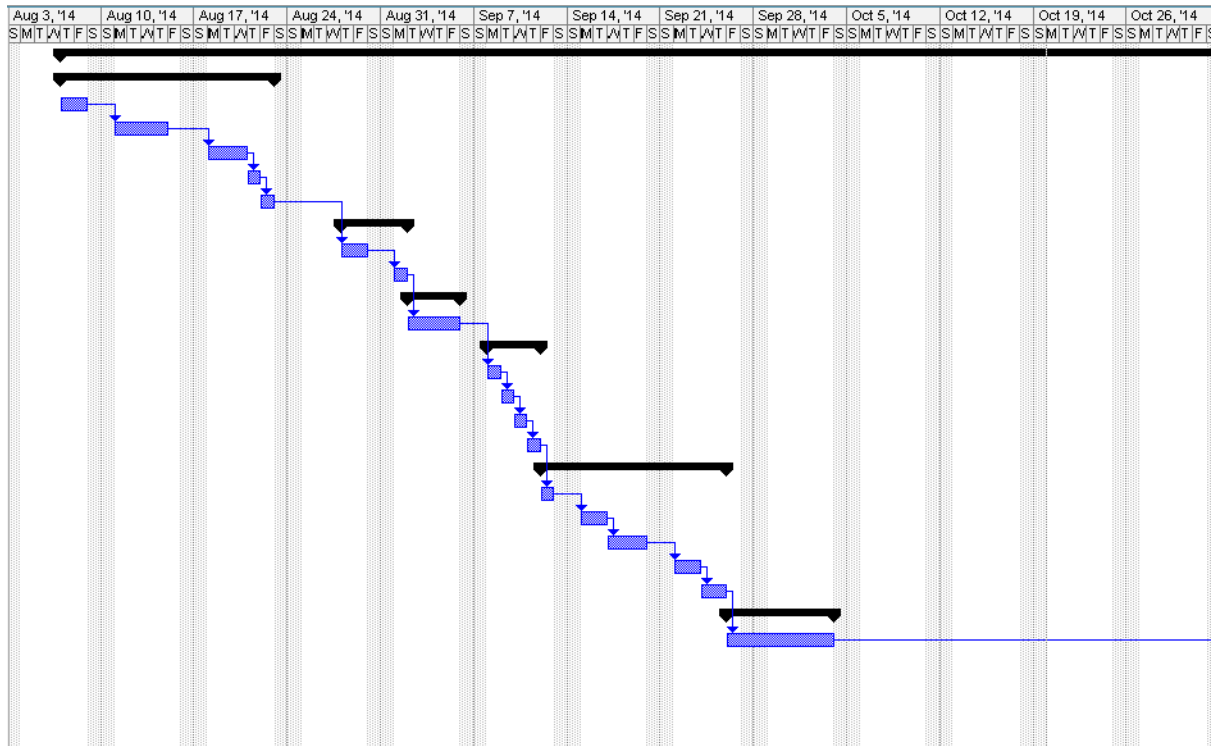


Figure 4.2 Gantt chart