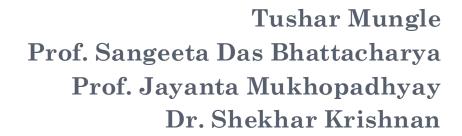
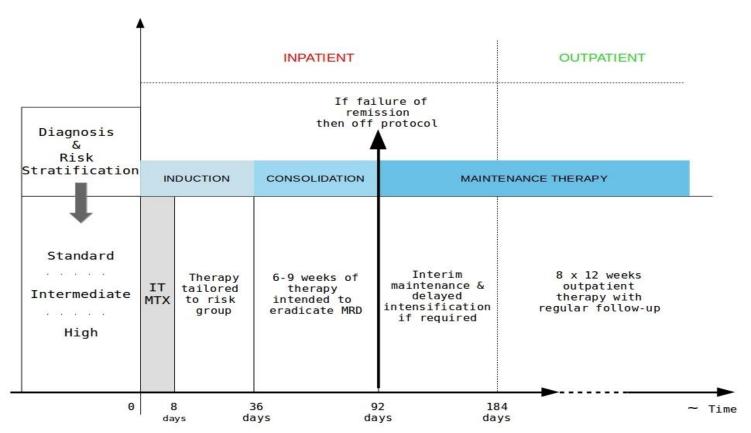
DECISION SUPPORT SYSTEM FOR SUPERVISION OF MAINTENANCE THERAPY

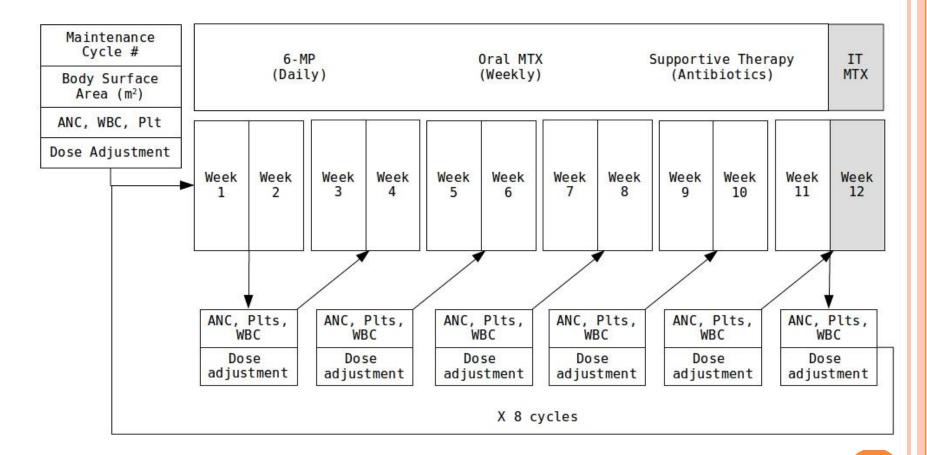


ALL TREATMENT

• The standard treatment protocol for children diagnosed with ALL include *induction*, *consolidation* and *maintenance therapy*



MAINTENANCE THERAPY



CHALLENGES

• Regular check-up procedures during rigorous follow up treatment in ALL cancer patients overburdens the specialists.

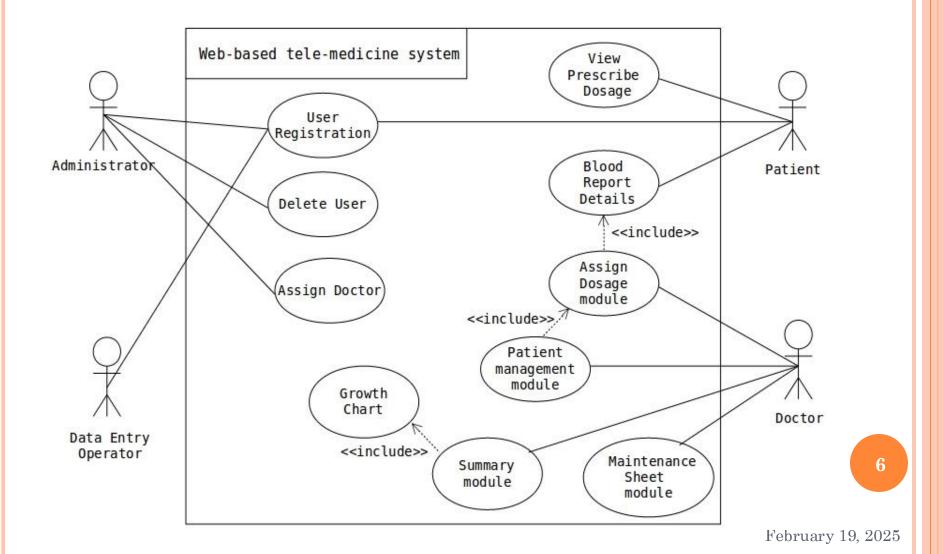
• Children and their families have to travel frequently from remote locations which adds to the mental, physical and financial concerns.

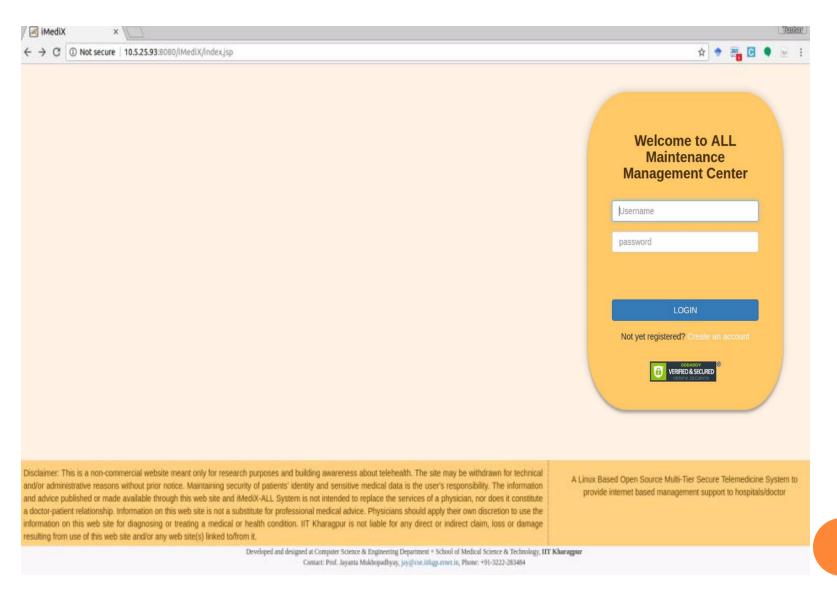
SOLUTION

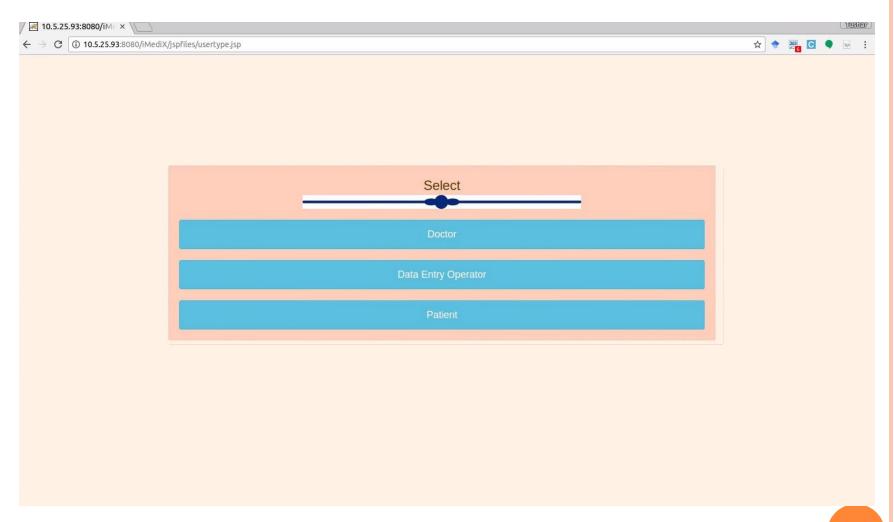
 Clinical Decision Support System which can assists health practitioners to better monitor patents condition on regular basis

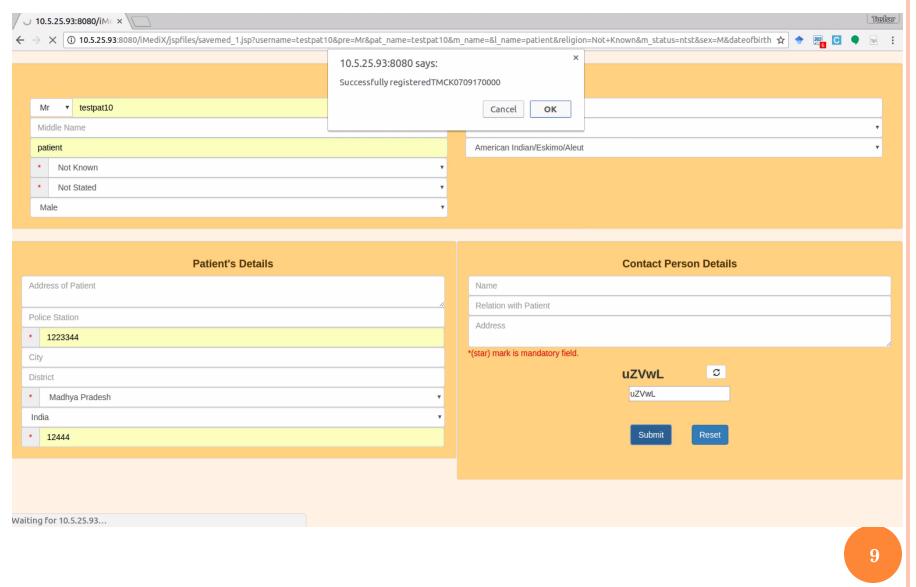
• Designing a system that allows *effortless* and *safe* communication between parents and physicians.

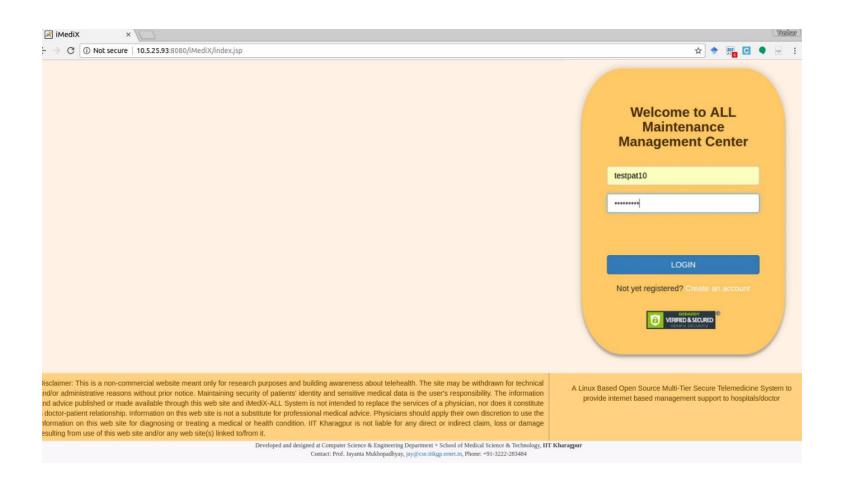
Web based medical informatics system – A Decision Support System



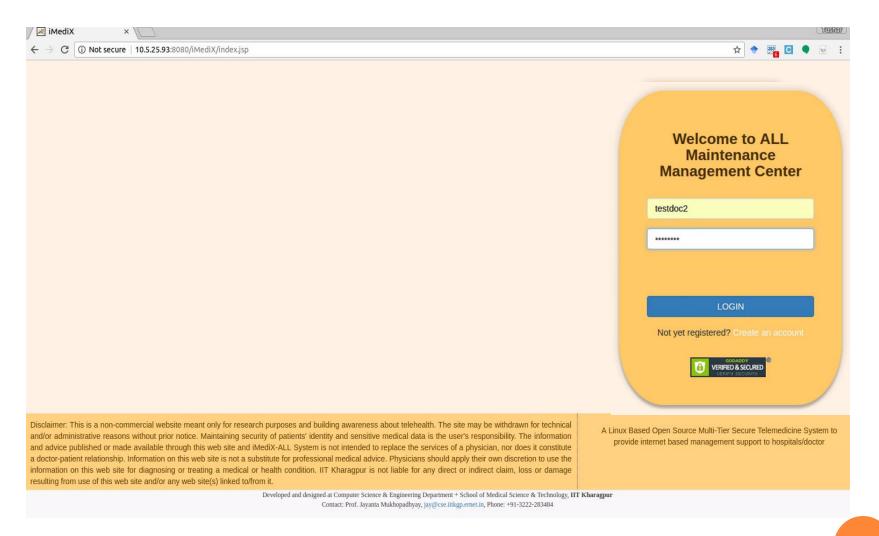


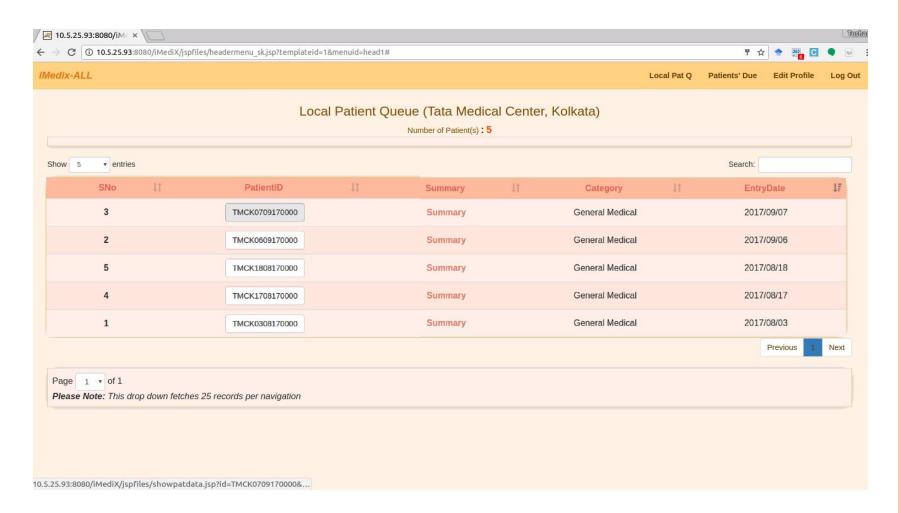


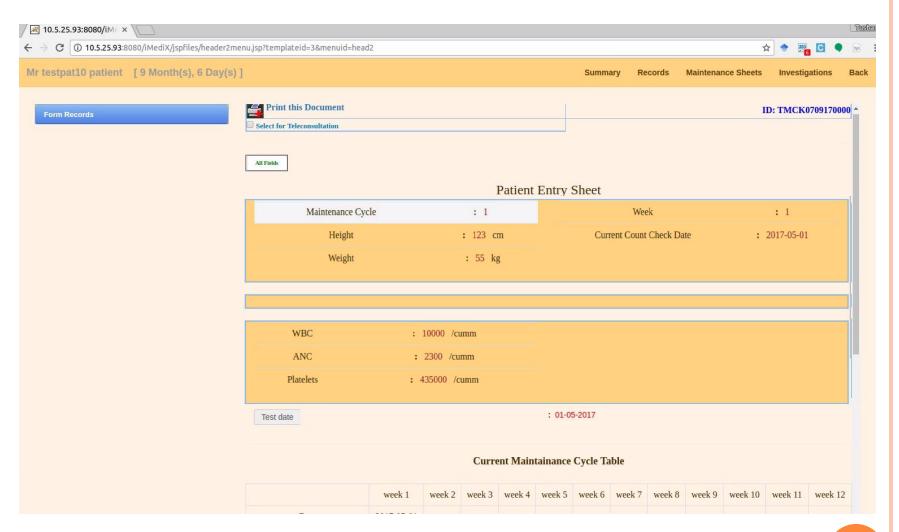


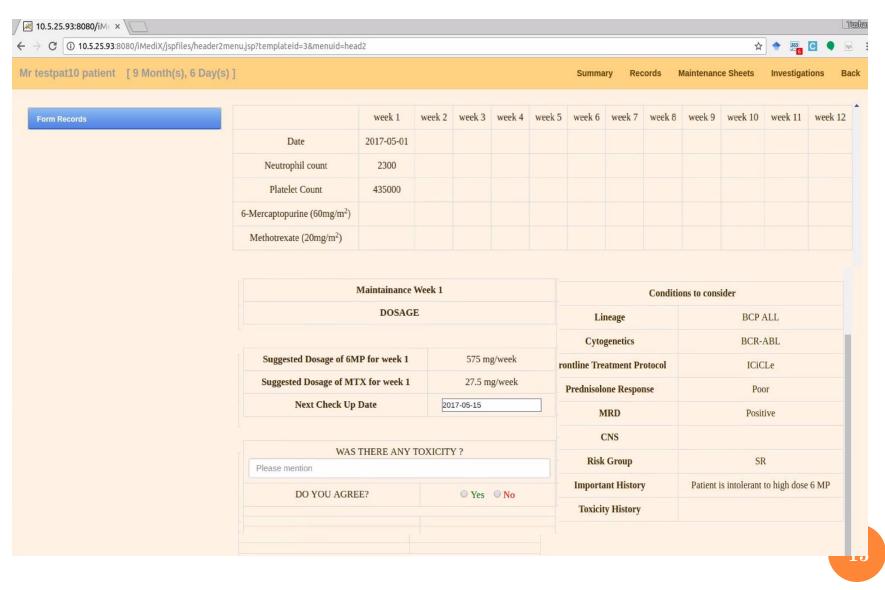


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			Records Investigations Log	g Out
			100	
Maintenance Cycle	1	Week	1	
Height	123	Current Count Check Date	01-05-2017	
Weight	55			
Date of IT Methotrexate	e			
WBC	10000			
Neutrophils	23			
Platelets	435000			
Test date 01-05-2017				
		Submit		
	Maintenance Cycle Height Weight Date of IT Methotrexate WBC Neutrophils Platelets	Maintenance Cycle 1 Height 123 Weight 55 Date of IT Methotrexate WBC 10000 Neutrophils 23 Platelets 435000	Maintenance Cycle Maintenance Cycle 1 Height 123 Week Current Count Check Date Date of IT Methotrexate WBC 10000 Neutrophils 23 Platelets 435000	Patient Entry Sheet Maintenance Cycle 1 Week 1









Patient Name: patient1 Date of Birth: 2017-06-01

Weekly Medication Advice Page

Maintainance Cycle	1
Maintainance Week	2
Weight	150.0 kg
Height	54.0 cm
BSA	1.5 m ²

WBC	10000 /cumm	
Neutrophil Count	2400 /cumm	
Platelets	270000 /cumm	

Suggested Dosage of 6 MERCAPTOPURINE(6MP) for week 2 = 650 mg/week							
Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Dosage(mg)	100	75	100	75	100	100	100
Tablet	••	•-	••	•-	$\bullet \bullet$	\bullet	••
Amount	2	1+1/2	2	1+1/2	2	2	2

Suggested Dosage of METHOTREXATE (MTX) for week 2 = 30.0 mg/week							
Days	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Dosage(mg)	0	0	0	30.0	0	0	0
Tablet	0	0	0	•	0	0	0

Check up Dates				
Current Visit Date	2017-08-11			
Next Visit Date	2017-08-25			

Consulting Doctor: Test Doc Two	Signature & Date:	

DEPLOYMENT

- We are planning to deploy the system at Tata Medical Center, Kolkata. (Pilot study)
 - Check the how the decision support system would help doctors and patients in Maintenance therapy

FUTURE WORK

- Deploy the system on internet
- Mobile application
 - To remind the patients of their daily dose intake
 - To monitor the adherence rate for patients' daily dosage
 - To upload the blood report details and get the weekly medication advice from the doctor

Thank You