Use Case Description

Table 01: Use Case Description of Register

Use Case Id	01	
Use Case Name	Register	
Goal	To be a user, all needs to be registered to the system	
Preconditions	Users should have mobile phone number, email and some necessary information	
Success End Condition	Users successfully registered to the system Users have right authority to log in to the system	
Failed End Condition	Users can't register to the system	
Primary Actors:	Hospital Management, Patient, Doctor, Lab Reporter	
Secondary Actors:	System Admin	
Trigger	Click on Register or Sign Up	
Main Success Flows	**Step**	**Action**
	1	User find our system
	2	User gives required information
	3	User read the system privacy policy and terms of service
	4	System check the information of user.
	4.1	System find that user is unique, and information are right
	4.2	The system successfully registered the user
Alternative Flows	**Step**	**Branching Action**
	4a	The system find that user is not unique, and information are wrong
	4a1	The system cannot register the user
Quality Requirements	**Step**	**Requirement**
	2	User can give one or two phone number

Table 02: Use Case Description of Log in to System

Use Case Id	02
Use Case Name	Log in to System
Goal	To be a user, all needs to be logged in to the system
Preconditions	Users must be registered to the system
Success End Condition	Users successfully logged in to the system
Failed End Condition	Users can't log in to the system
Primary Actors: **Secondary Actors:**	Hospital Management, Patient, Doctor, System Admin, Lab Reporter
Trigger	Click on log in button

Main Success Flows	**Step**	**Action**
	1	User gives required information
	2	System check the information of user.
	3	System find that user is unique, and information are right
	4	User successfully logged in to the system
Alternative Flows	**Step**	**Branching Action**
	3a	The system find that user is not unique, and information are wrong
	4a	User can't log in to the system
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 03: Use Case Description of Log out from System

Use Case Id	03	
Use Case Name	Log out from System	
Goal	User wants to log out from the system	
Preconditions	User must be a registered person to the system	
Success End Condition	Users successfully logged out from the system	
Failed End Condition	Users can't log out from the system	
Primary Actors: Secondary Actors:	Hospital Management, Patient, Doctor, System Admin	
Trigger	User is in the system	
Main Success Flows	Step	Action
	1	User log in to the system
	2	User log out from the system
Alternative Flows	Step	Branching Action
	2a	User does not want to log out
Quality Requirements	Step	Requirement
		Not applicable

Table 04: Use Case Description of Add Doctors

Use Case Id	04	
Use Case Name	Add Doctors	
Goal	Hospital Management wants to add doctor	
Preconditions	Hospital Management must be registered & logged in to the system	
Success End Condition	Hospital Management successfully add doctor to hospital's doctor list	
Failed End Condition	Hospital Management can't add the doctor to the doctor list	
Primary Actors:	Hospital Management	
Secondary Actors:	Doctor, System Admin	
Trigger	Click on Add Doctors from Menu bar	
Main Success Flows	**Step**	**Action**
	1	Hospital Management sign up for registration
	1.1	Hospital Management sign up via email
	1.2	Hospital Management sign up via phone number
	2	Hospital Management check the qualification of doctors
	3	Hospital management create profile for doctors
	3.1	Fill up necessary information for doctors
	4	Finally click add button to add doctors to the system
Alternative Flows	**Step**	**Branching Action**
	2a	Hospital Management can't add doctors for their lower qualification or duplicate in the system
Quality Requirements	**Step**	**Requirement**
	3	Hospital Management has full authority to add or remove any doctor from their hospital doctors list

Table 05: Use Case Description of Manage Doctors

Use Case Id	05	
Use Case Name	Manage Doctors	
Goal	Hospital management wants to manage all doctors of their hospital	
Preconditions	Hospital management must add doctors for managing them	
Success End Condition	Hospital management successfully manage doctors those are include in their hospital	
Failed End Condition	Hospital management can't manage doctors of their hospital	
Primary Actors:	Hospital Management	
Secondary Actors:	Doctor, System Admin	
Trigger	Click on Manage Doctors	
Main Success Flows	**Step**	**Action**
	1	Hospital management sign up for registration
	1.1	They sign up via email
	1.2	They sign up via phone number
	2	Hospital management create profile for doctors
	2.1	Fill up necessary information for doctors
	3	Hospital management add doctors
	4	Hospital management manage and monitor doctors that are include in their hospital
Alternative Flows	**Step**	**Branching Action**
		Not applicable
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 06: Use Case Description of Set Appointment

Use Case Id	06	
Use Case Name	Set Appointment	
Goal	Patient wants to set an appointment in a hospital to check up his/her health	
Preconditions	Patient must be registered & logged in to the system	
Success End Condition	Doctor is available in the choosing hospital Money is paid to the hospital	
Failed End Condition	Doctor is not available in the choosing hospital Money is not paid to the hospital	
Primary Actors: **Secondary Actors:**	Patient Hospital Management, System Admin	
Trigger	Select set appointment from menu bar	
Main Success Flows	**Step**	**Action**
	1	Patient choose a specific doctor
	2	The system gives doctors information to the patient
	3	System shows doctor's available schedule
	3.1	Patient choose a date according to doctor's availability
	4	Patient gives his/her information
	5	Hospital takes 30% money of the total charge of appointment from patient to confirm his/her appointment
Alternative Flows	**Step**	**Branching Action**
	3a	Patient doesn't match time to the schedule day
	5a1	Appointment cannot be confirmed by patient
Quality Requirements	**Step**	**Requirement**
	5	The patient should confirm appointment by bKash within 12 hours

Table 07: Use Case Description of Choose Clinic and Doctor

Use Case Id	07	
Use Case Name	Choose Clinic and Doctor	
Goal	Patient wants to choose clinic and doctor for setting appointment	
Preconditions	Patient must be registered & logged in to the system.	
Success End Condition	Patient see the clinic name and doctor name for setting appointment	
Failed End Condition	Patient can't choose clinic and doctor name	
Primary Actors:	Patient	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Click on clinics and doctors list	
Main Success Flows	**Step**	**Action**
	1	Patient Sign up for Registration.
	1.1	Patient sign up via email.
	1.2	Patient sign up via phone number.
	2	Patient click on clinic and doctor list
	3	Patient see clinics and doctor's information
	4	Patient choose clinic and doctor
Alternative Flows	**Step**	**Branching Action**
	3a	Patient doesn't find any nearable clinic
	4a	Patient doesn't find doctor according to his/her demand
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 08: Use Case Description of Check Schedule

Use Case Id	08	
Use Case Name	Check Schedule	
Goal	Patient wants to check his/her appointment schedule which set before	
Preconditions	Patient must be logged into the system and set appointment	
Success End Condition	Successfully check his/her appointment	
Failed End Condition	Patient doesn't check schedule	
Primary Actors:	Patient	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Select check schedule option	
Main Success Flows	**Step**	**Action**
	1	Before check-up, patient check his/her appointment schedule
	2	Check time and date of appointment
Alternative Flows	**Step**	**Branching Action**
		Not applicable
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 09: Use Case Description of Cancel and update appointment

Use Case Id	09	
Use Case Name	Cancel and update appointment	
Goal	Patient wants to cancel or update his/her appointment which set before	
Preconditions	Patient must set appointment	
Success End Condition	Successfully cancel or update his/her appointment	
Failed End Condition	The appointment can't be cancelled or updated	
Primary Actors:	Patient	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Select update and cancel appointment option	
Main Success Flows	**Step**	**Action**
	1	Patient set his/her appointment
	2	Patient doesn't match time to the schedule day
	3	Patient update or cancel his/her appointment
Alternative Flows	**Step**	**Branching Action**
		Not applicable
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 10: Use Case Description of Pay money

Use Case Id	10	
Use Case Name	Pay money	
Goal	For setting appointment, patient needs to pay 30% money of the total charge of appointment within 12 hours	
Preconditions	Patient should have Bkash account	
Success End Condition	Patient paid 30% money of the total charge of appointment	
Failed End Condition	Patient doesn't pay the money	
Primary Actors:	Patient	
Secondary Actors:	Hospital Management	
Trigger	Pay money request notification comes in	
Main Success Flows	**Step**	**Action**
	1	Patient choose specific clinic and doctor
	2	The system gives doctors information to the patient.
	3	System shows doctor's available schedule
	3.1	Patient choose a date according to doctor's availability
	4	Patient gives his/her information
	5	Patient pay 30% money of the total charge of appointment within 12 hours for setting appointment
Alternative Flows	**Step**	**Branching Action**
	5a	Old patient pays 15% money of the total charge of appointment
Quality Requirements	**Step**	**Requirement**
	5	Don't pay less than 30% or 15% money of the total charge of appointment

Table 11: Use Case Description of Check Appointment

Use Case Id	11	
Use Case Name	Check Appointment	
Goal	Doctor wants to check appointment	
Preconditions	Doctor must be registered & logged in to the system	
Success End Condition	Doctor see the appointment list	
Failed End Condition	Doctors are not check today's appointment	
Primary Actors:	Doctor	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Click check appointment option	
Main Success Flows	**Step**	**Action**
	1	Doctor sign up for registration
	1.1	Doctor sign up via email
	1.2	Doctor sign up via phone number
	2	Doctor click each patient name in appointment list
	3	Doctor see the patient information such as name, age, gender, short description of disease
Alternative Flows	**Step**	**Branching Action**
		Not applicable
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 12: Use Case Description of Prescribe test and medicine

Use Case Id	12	
Use Case Name	Prescribe test and medicine	
Goal	After check-up doctor prescribe test and medicine for patient	
Preconditions	Doctor must be a registered in hospital or Clinic	
Success End Condition	Doctor prescribe test and medicine for her/his patient after check-up	
Failed End Condition	Doctor don't prescribe test and medicine for her/his patient	
Primary Actors:	Doctor	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Select patient name from appointment list	
Main Success Flows	**Step**	**Action**
	1	Doctor choose a specific patient
	2	The system gives a paper for prescribe test and medicine
	3	System shows test name
	3.1	Doctor choose test name
	4	Doctor write medicine name
	5	Doctor click submit button
Alternative Flows	**Step**	**Branching Action**
Quality Requirements	**Step**	**Requirement**
	2	The doctor must be prescribed test and medicine for his/her patient

Table 13: Use Case Description of Check necessary test

Use Case Id	13	
Use Case Name	Check necessary test	
Goal	Lab Reporter wants to check necessary test for a particular patient before create reports	
Preconditions	Lab reporter must be registered in the hospital and logged into the system	
Success End Condition	Lab reporter check necessary test that prescribe the doctor	
Failed End Condition	Lab reporter can't check necessary test that prescribe the doctor	
Primary Actors:	Lab Reporter	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Input patient ID	
Main Success Flows	Step	Action
	1	Doctor prescribes test for patient
	2	Lab reporter choose a specific patient by patient id
	3	The system shows prescribe test
	4	Lab reporter check necessary test before test
Alternative Flows	Step	Branching Action
	1a	Doctor doesn't prescribe any test for patient
Quality Requirements	Step	Requirement
	2	Lab reporter should entry valid patient ID

Table 14: Use Case Description of Create Reports

Use Case Id	14	
Use Case Name	Create Reports	
Goal	Lab Reporter wants to create reports a particular patient which prescribe a doctor	
Preconditions	Lab reporters must be registered in the hospital	
Success End Condition	Lab reporters can create a report for patient	
Failed End Condition	Lab reporter can't create report and can't see prescribe report	
Primary Actors:	Lab Reporter	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Select create reports	
Main Success Flows	**Step**	**Action**
	1	Doctor prescribes test for patient
	2	Lab reporter choose a specific patient by patient ID
	3	The system shows prescribe test
	4	After test, lab reporter input test result in patient ID
Alternative Flows	**Step**	**Branching Action**
	1a	Doctor does not prescribe any test for patient
Quality Requirements	**Step**	**Requirement**
	1	Lab reporter should entry valid patient ID

Table 15: Use Case Description of See the test report and print it

Use Case Id	15	
Use Case Name	See the test report and print it	
Goal	After check-up patient wants to see the test report and print a copy.	
Preconditions	Patient must be logged into the system	
Success End Condition	Successfully see the test report and print it	
Failed End Condition	Patient can't see the test report	
Primary Actors:	Patient	
Secondary Actors:	Hospital Management, System Admin	
Trigger	Click on view report	
Main Success Flows	**Step**	**Action**
	1	Doctor check the patient condition and prescribe test
	2	Lab reporter check necessary test and after test he/she create reports
	3	Patient see the test report and print a copy after log in to the system
Alternative Flows	**Step**	**Branching Action**
	3a	Don't have any report and patient can't see and print the report
Quality Requirements	**Step**	**Requirement**

Table 16: Use Case Description of Update Profile

Use Case Id	16	
Use Case Name	Update Profile	
Goal	User wants to update his/her profile	
Preconditions	User must be a registered person in the system	
Success End Condition	User successfully update his/her profile	
Failed End Condition	User cannot update his/her profile	
Primary Actors: Secondary Actors:	Patient, Doctor, Lab Reporter, Hospital Management System Admin	
Trigger	Click on Update Profile from Menu Bar	
Main Success Flows	**Step**	**Action**
	1	User login via user ID and password
	2	User change his/her name, profile picture etc.
	3	Click on the change button
	4	Profile is successfully changed
Alternative Flows	**Step**	**Branching Action**
	3a	Click on cancel button to cancel profile updating
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 17: Use Case Description of Change Account and Password

Use Case Id	17	
Use Case Name	Change Account and Password	
Goal	User wants to change account and password	
Preconditions	User must be a registered person in the system	
Success End Condition	User successfully change his/her account and password	
Failed End Condition	User can't change his/her account and password	
Primary Actors: **Secondary Actors:**	Patient, Doctor, Lab Reporter, Hospital Management System Admin	
Trigger	Click on update profile	
Main Success Flows	**Step**	**Action**
	1	User change his/her user name, password etc.
	2	Click on the change button
Alternative Flows	**Step**	**Branching Action**
		Not applicable
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 18: Use Case Description of Manage Users and Full System

Use Case Id	18	
Use Case Name	Manage Users and Full System	
Goal	Managing user's data and collaborate the system.	
Preconditions	System Admin must be logged in to the system	
Success End Condition	System Admin checks user's data and system functionality	
Failed End Condition	System Admin cannot check user's data and system functionality	
Primary Actors:	System Admin	
Secondary Actors:	Patient, Doctor, Lab Reporter, Hospital Management	
Trigger	Login to the system	
Main Success Flows	**Step**	**Action**
	1	System Admin login via email
	2	System Admin can check data and give right authority of user to the system
	3	The system has some malfunctions.
	3.1	System Admin check system functionality to remove malfunctions
	3.2	System Admin successfully remove malfunctions.
Alternative Flows	**Step**	**Branching Action**
	3a	The system doesn't have any malfunctions
Quality Requirements	**Step**	**Requirement**
		Not applicable

Table 19: Use Case Description of Manage Medical Reports

Use Case Id	19	
Use Case Name	Manage Medical Reports	
Goal	Managing Medical Reports of Patients	
Preconditions	A Medical Report must be provided by lab reporter	
Success End Condition	The system automatically stores the medical report data.	
Failed End Condition	The system cannot store the medical report data.	
Primary Actors: Secondary Actors:	System Admin Lab Reporter	
Trigger	Login to the system	
Main Success Flows	**Step**	**Action**
	1	System find Medical Report
	2	System automatically store the Medical Report data.
Alternative Flows	**Step**	**Branching Action**
	1a	System doesn't find any Medical Report
Quality Requirements	**Step**	**Requirement**
		Not applicable