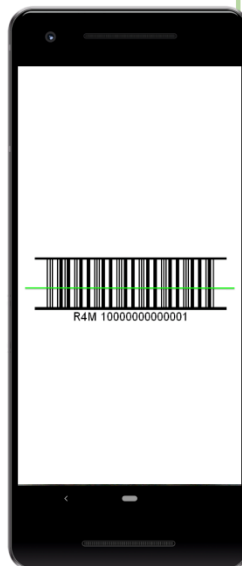
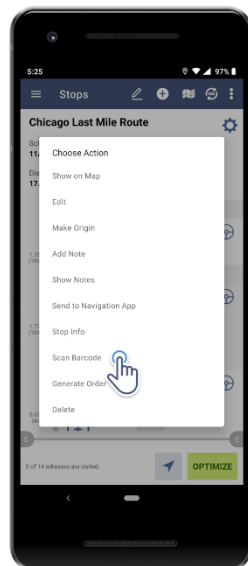


## Babatye Mobile App for Barcode Reader

24 SEPTEMBER 2020

# SPRINT 2 DOCUMENTATION AND EVIDENCE



**LEADER: ROSHAN DHITAL (30361962)**

**PRODUCT OWNER: Kamal Pun  
(30371365)**

**SCRUM MASTER: Riaz Qadir  
(30364968) DEVELOPER: Haque  
Mohammad (30379834) SYSTEM**

**ANALYST: Jashandeep Singh  
(30362218)**

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# Iteration/Sprint Documentation

## Theme & Wishlist

*The target of our project backlog is to make sure developer team work on the right track and are intended to work as the sprint goal with the importance of teamwork. As describe in the scrum guide is the arrangement for the project backlog and it refer to the understanding of the sprint goal which we are currently working on.*

*Improving the backlog time to time will help us to get the accurate point about the client output what they are looking for. It incorporates somewhere around one high need process improvement distinguished in the past Retroactive gathering. This sprint is not just limited on this, but it can also help to understand the progress in time. Project backlog mainly can be change by the developer team only they can change it time to time and submit to the respective one for further instruction.*

### Our Target:

#### **1. EXCITING SCOPE OF WORK**

Everyone love it when it has projects that are exciting and interesting. Those types of projects motivate people to come to work each day and immerse in the work. For our project thankfully we have the scope and opportunity to work like that.

#### **2. EXCELLENT TEAMWORK**

Teamwork is the engine that makes a project run smoothly. We wish that each of us in this project had a great team contribution that lead us work together effectively and efficiently. It is important that the team works together to resolve issues and supports, leverages, and compliments each other's strengths. It is also great if we get along well with each other and enjoy each other's company it can be virtually as well.

#### **3. EFFICIENT PROJECT PROCESSES**

Smart people hate to waste time (unless of course it is kicking back and watching a good sporting event) and we as a team especially hate wasting time on stupid and inefficient processes. we wish that each process that is defined on the project and most likely by the guidelines we got is efficient and necessary for the effective execution of our project.

#### **4. PROJECT TOOLS THAT WORK AND ENHANCE THE PROJECT**

Often in the past people have had to use project tools that were clunky and were just a pain to work with. we wish that this time we had in our project tool arsenal the most effective tools that worked efficiently and made our life easier as a participant in the project, not harder.

## 5. SUFFICIENT PROJECT RESOURCES

We think every project manager wish was that they would always have the right amount of resources for their project and that these resources were available when they were needed to perform the work at hand. And we will make sure to work like that.

## 6. SATISFIED CLIENT

The ultimate wish for this project is to be able to provide great value to our client. we wish that each project part work on in the future will deliver everything our client wants and that they are completely satisfied with each deliverable that the team produces.

**Theme for Sprint 2:** *"Create a data repository to store information obtained from scanned products."*

**Wishlist for Sprint 2:** *To create a sample database for Babtye to store information of product, employees, and suppliers.*

## Incoming Product Backlog

Text or user stories highlighted in **green** are done in Sprint 1 and remaining user stories highlighted in **blue** will be done in this Sprint 2 report. Tasks are not equally distributed among two Sprints as 6 requirements were added during commencement of Sprint 1.

Requirement	Condition of satisfaction	Priority
US1 As a user, I want to create an account so that I can start using scanner app.	Login credentials created.	Medium
US2 As a user, I want to login so that I can start using app to scan barcode of cloths to save time.	Successful login and user can use the app to scan barcodes straightway.	High
US3 As a user, I want the app to show user details so that I can review time and details of employee scanning the cloths.	Interface showing details of employee scanning items with time.	Low
US4 As a user, I want scanned barcode data to be stored directly into data repository so that I can organise all information.	Scanned data from barcode is stored into data repository.	Critical
US5 As a user, I want to store each data in barcode in individual columns into the database so that I can retrieve information individually.	Database has individual columns for different data included in barcode.	Critical
US6 As a user, I want to retrieve information according to category, type, weight, size, and colour of the product so that I can track and manage stock in inventory.	Database shows product accordingly and items left in stock.	High
US7 As a user, I want to retrieve details of employees and suppliers so that I can process returns and correct missed supplies.	Database shows employees and supplier details.	Medium
US8 As a user, I want the system to be flexible so that any additional data included in the barcode may be retrieved.	Database should include new information included in barcode such as material.	High
US9 As a user, I want each item to have unique identifier (UID) in database so that it can be searched easily and quickly with that identifier.	All information stored in database have unique identifier and can be searched.	Low
US10 As a user, I want the app to be universal so that it can work on any normal mobile irrespective of OS.	App works on any normal mobile.	Critical
US11 As a user, I want to manually update information in case app is unable to scan barcode or there is no barcode attached so that I can store the items information in database as damaged.	User can update information manually.	Medium
US12 As a user, I want to scan all types of barcodes so that any items from different suppliers using different barcodes can be scanned.	App can scan all types of barcodes like Universal barcodes, QR codes and so on.	Critical

## Sprint 2 Backlog

Requirement	Condition of Satisfaction	Tasks & Estimates
US3 As a user, I want the app to show user details so that I can review time and details of employee scanning the cloths.	<p>Employees can login to app.</p> <p>After scanning a product, the app should show employee details on screen.</p> <p>The interface shows employee details with time.</p>	T10 Interface for showing employee details and other information regarding scanned item – 1 day (Riaz)
US4 As a user, I want scanned barcode data to be stored directly into data repository so that I can organise all information.	<p>App is linked to separate data repository to store information.</p> <p>Scanned item information is directly stored into the data repository.</p> <p>Database holding information.</p>	<p>T11 Creating a database – 1 ½ day (Jashandeep &amp; Roshan)</p> <p>T12 ER diagram of database – 1 day (Kamal &amp; Mohammad)</p>
US5 As a user, I want to store each data in barcode in individual columns into the database so that I can retrieve information individually.	<p>Database is organised.</p> <p>Individual information can be searched.</p>	T13 Create individual columns for different data type in database – ½ day (Roshan)
US6 As a user, I want to retrieve information according to category, type, weight, size, and colour of the product so that I can track and manage stock in inventory.	<p>Information regarding specific keywords (category, type, weight, size) is searchable.</p> <p>With that information user can track and manage inventory.</p>	T14 Options to search database with specific keywords – ½ day (Kamal)
US7 As a user, I want to retrieve details of employees and suppliers so that I can process returns and correct missed supplies.	<p>All information of employees scanning items is stored into database.</p> <p>Suppliers details stored in database.</p>	<p>T15 Employees and supplier's information stored in database – 1 day (Jashandeep)</p> <p>T16 Use case diagram for overall scenario of database – 1 day (Kamal)</p> <p>T17 Activity diagram for database – 1 day (Mohammad)</p>

US8 As a user, I want the system to be flexible so that any additional data included in the barcode may be retrieved.	Any new information that suppliers provide in their items can be retrieved and stored in database.  System is flexible to changes	T18 New columns for new data type are created in database – ½ day (Roshan)
US9 As a user, I want each item to have unique identifier (UID) in database so that it can be searched easily and quickly with that identifier.	Items scanned have Unique identifier (UID).  User can easily sort and filter through database to obtain information of items with those UID.	T19 UID columns for items in database – ½ day (Kamal)
US10 As a user, I want the app to be universal so that it can work on any normal mobile irrespective of OS.	App is usable in any current mobile available in the market.	T20 Screenshots showing app used in different OS – 1 day (Riaz)
US11 As a user, I want to manually update information in case app is unable to scan barcode or there is no barcode attached so that I can store the items information in database as damaged.	Interface for manually updating item information.  Manually updated information also stored in database as damaged.	T21 Separate column for manually entered information in database – 1 ½ (Mohammad and Jashandeep)
US12 As a user, I want to scan all types of barcodes so that any items from different suppliers using different barcodes can be scanned.	App scans all type of barcodes.  App automatically detects and scan barcodes irrespective of their types.	T22 Screenshots of app scanning different types of barcodes – 1 day (Riaz)

## Review Meeting

*The meetings we have been having with our client and supervisor are going well till date and we have been getting positive feedbacks regarding to our work. They tell us about the things that needs to be improved and discuss about the upcoming challenges. To respect everyone's schedule, we all have agreed on a specific time for the meetings to be held every week. With the client we have meetings every Monday at 11:00 am and with our supervisor we have the meetings at on Tuesday every week at 12:00 pm. Recently our client suggested to have a bit of change in meetings time and everyone agreed on it. Whatever things discussed in the meetings, everybody notes them down and use them to improve our work as their feedback helps us a lot.*

#### **(4th meeting with client)**

Project Handbook – To elaborate the things discussed in project plan and commencement of Sprint 2.

**Date and time:** 21/09/2020, 10:45 am – 11:30 am

**Venue:** Zoom meeting

**Attendees:** Riaz, Roshan, Muhammad, Kamal & Jashandeep

**Apologies:** None

**Minutes taken by:** Muhammad

##### **Agenda item 1: Demonstration feedback:**

Everything was demonstrated properly as client was satisfied with the work, we provided to them.

More new diagrams and charts were added and Riaz elaborated RACI matrix to its fullest. Client reviewed everything and provided necessary feedback.

Client was provided with prototype for the homepage of app and they provided their feedback to that too.

##### **Agenda item 2: Things which could be improvised:**

Client suggested that the cover page of app should have a small logo of their company on the top left of home screen interface.

The data repository should be cloud based so in future if anything happens, the data can be retrieved easily.

##### **Agenda item 3: Next review meeting with client for sprint 2:**

Scheduled for 28/09/2020 at 10:45 am

#### **(5th meeting with client)**

Sprint 2 – To improve the sprint 1 document and add additional work to it.

**Date and time:** 28/09/2020, 10:45 am – 11:30 am

**Venue:** Zoom meeting

**Attendees:** Riaz, Roshan, Muhammad, Kamal & Jashandeep

**Apologies:** None

**Minutes taken by:** Riaz

##### **Agenda item 1: Sprint 2:**

Sprint 2 document will be telling about all the things thoroughly. We will be discussing the detailed theme and detailed Wishlist in this part.

There will not be any command on the home screen of the app other than a single button which will be stating to scan the items manually in case of damaged barcode.



**Agenda item 2: product prototype:**

Client wanted us to create a prototype for them at this stage, but we had sprint 2 coming and asked them that we will start working on it after the sprint 2.

Everyone was excited about the interface of app as we were moving to the last stage of this project. Client was satisfied with the overall work too.

**Agenda item 3: Next review meeting with client for Prototype:**

Scheduled for 05/09/2020 at 10:45 am

**(6th meeting with client)**

[Project plan meeting – Structure of the prototype and how it's going to at the end.](#)

**Date and time:** 05/10/2020, 10:45 am – 11:30 am

**Venue:** Zoom meeting

**Attendees:** Riaz, Roshan, Mohammad, Kamal & Jashandeep

**Apologies:** None

**Minutes taken by:** Mohammad

**Agenda item 1: Demonstration feedback:**

It was all about the prototype how the interface of the website will look like and all. The client was asking a very simple but workable platform where the work requirement can be done safe and sound.

Scanning is the main term for this website where after the bar code scan it will automatic log in to the prototype page or if the user did not log in before it will ask them to enter all the details which only ask for one time and from next term it will store all the data instantly.

**Agenda item 2: Project Plan and Feedback:**

Client suggested that better to minimise the idea in 3 to maximum four interfaces because it is hard to track if it has lots of information to check for a beginner or inexperienced person.

Jass suggested that, if we should start working on in vision apps that will be better to design the interface we all agreed, but the main term was how this will show in the internet do we need to rent some domain to implement the prototype as live or there are another way to do that.

Finally, we all find the solution that there is option in the invasion apps it could show the prototype live if we done through the apps.

Client was also happy and agreed with that.

**Agenda item 3: This was the last review meeting with client for sprint 2.**


## Retrospective meeting

15:18


Edit


All


Missed




Roshan


 Outgoing


8/15/20 




Roshan


 Missed


8/15/20 




Jass WA


 Outgoing


8/14/20 




Jass WA & 3 others


 Missed


8/14/20 




Jass WA & 3 others


 Missed


8/14/20 




Roshan


 Incoming


8/14/20 




Roshan


 Missed


8/14/20 




Jass WA & 5 others


 Incoming


8/13/20 




Jass WA & 5 others


 Incoming


8/13/20 




Roshan


 Outgoing


8/13/20 




Jass WA & 3 others


 Incoming


8/12/20 




Jass WA & 3 others


 Outgoing


8/12/20 





Jass WA, Mohomad & Roshan


 Outgoing


8/12/20 

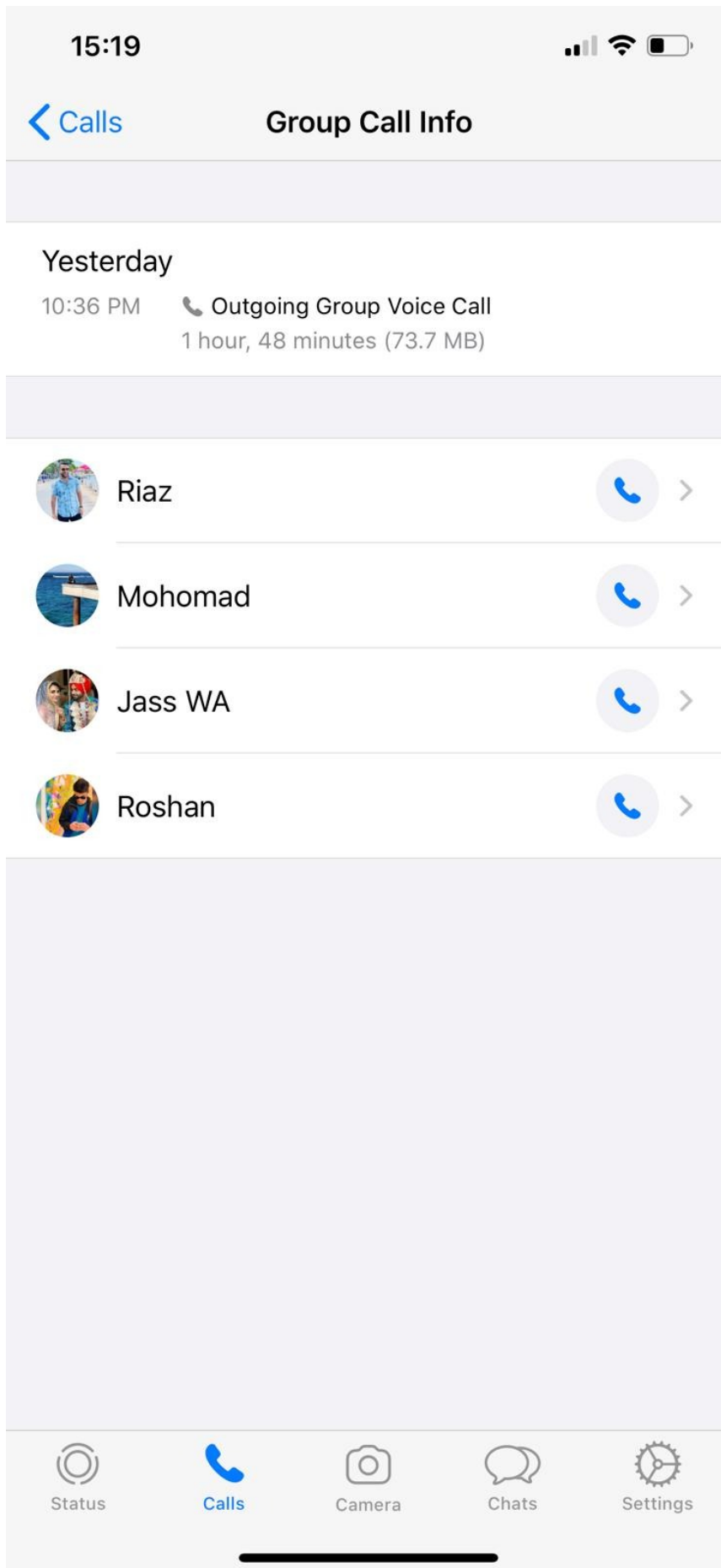
 Status

 Calls

 Camera

 Chats

 Settings



**Date and Time:** 7/10/2020, 5:30 pm – 7:30 pm

**Venue:** WhatsApp call

**Attendees:** Roshan, Singh Jashandeep, Riaz, Kamal & Muhammad

**Apologies:** None

**Minutes taken by:** Kamal

**Item 1:** What went well?

- Project handbook tasks were submitted to group leader.
- Future outcomes were discussed regarding to the interface and database of the mobile application.
- Jass suggested using INVISION for designing the interface of the application.
- Riaz made interfaces for the home and login page on MIT app inventor.
- Cloud based database was suggested as if anything happens; the data can be retrieved from cloud.

**Item 2:** What could be improved?

- Tasks can be done on time as previously we were lacking behind in a few tasks.
- There should be time assigned to every task, to not to delay in our submissions.
- Notes should be taken down by every group member as if anything important comes up we should note and not just let it go.
- There should be an end time specified in the meeting, if the meeting is going to run from ten until twelve, start it at 10 o'clock sharp and end it at 12 o'clock sharp. The worst types of meetings are the ones that start at a particular time but have no clearly determined ending time.
- There should be at least two meetings a week to discuss the outcomes, strategy, and future goals for the ongoing project.

**Item 3:** What can we do?

- We can work together as a group to meet the challenges of this project and to gain as much as we can while together.
- Leader is one who leads a team; we should always listen to our leader and can give possible suggestions on the things discussed among us.
- Time management is only key to get succeeded in anything. Our group has been not good in managing time as we had been lacking behind in our meetings with client so, this thing should be improved at first.
- Client satisfaction is important, so we should always consider their valuable feedback and use it to get better results.

**Item 4:** What is not in our control?

- Connectivity.
- Outcomes are not in our hands, but we can always increase our chances of getting better outcomes by working hard.

## Backlog grooming meeting

### (4<sup>th</sup> meeting with client):

*In this phase, everything was demonstrated properly as client was satisfied with the work, we provided to them. They ask for the prototype interface so that they got some idea how it going to work. More new diagrams and charts were added and Riaz elaborated RACI matrix to its fullest. Client reviewed everything and provided necessary feedback. Client was provided with prototype for the homepage of app and they provided their feedback to that too.*

### (5<sup>th</sup> meeting with client):

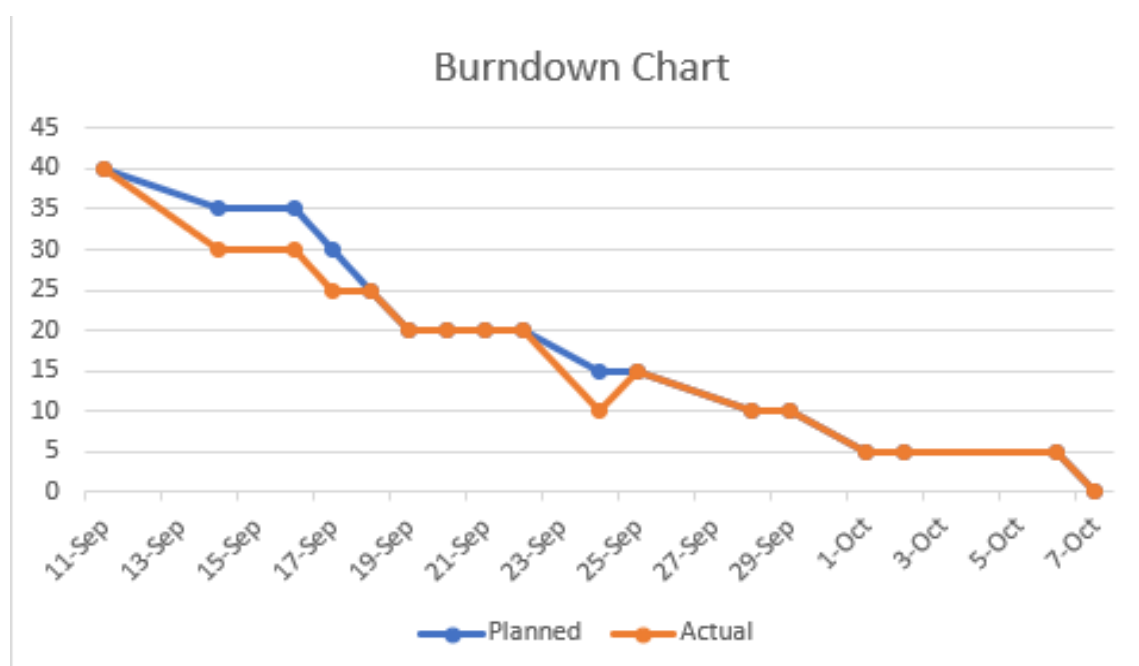
*This time we discuss about the Sprint 2 document. We did discuss the detailed theme and detailed Wishlist in this part. There was no other command on the home screen of the app other than a single button which will be stating to scan the items manually in case of damaged barcode. It was the instruction our client gives us. She also wants to create a prototype for them at this stage, but we had sprint 2 coming and asked them that we will start working on it after the sprint 2.*

*Everyone was excited about the interface of app as we were moving to the last stage of this project. Client was satisfied with the overall work too.*

### (6<sup>th</sup> meeting with client):

*It was all about the prototype how the interface of the website will look like and all. The client was asking a very simple but workable platform where the work requirement can be done safe and sound. Scanning is the main term for this website where after the bar code scan it will automatic log in to the prototype page or if the user did not log in before it will ask them to enter all the details which only ask for one time and from next term it will store all the data instantly.*

## Burn-Down chart



## Statement of contribution

### Project Vision:

- i. Project Overview - Mohammad
- ii. User Description - Riaz
- iii. Application Overview - Jashandeep
- iv. Application Features - Roshan
- v. Project Deliverables - Kamal
- vi. Future Development & Possibilities – Kamal

Report finalised and documented by Kamal

### Product Backlog:

- i. Brief description - Kamal
- ii. Associated Problem - Kamal
- iii. Envisioned Solution - Kamal
- iv. Definition of Key terms - Kamal
- v. Users – Kamal
- vi. Product Backlog Items - Kamal

Report done and prepared by Kamal

### Project Plan:

- i. Organization - Riaz
- ii. Managerial Process - Jashandeep
- iii. Technical Process - Mohammad
- iv. Non-functional Requirements – Roshan

Report finalised by Riaz, Jashandeep, Mohammad & Roshan and documented by Kamal

### Sprint 1:

- i. Theme & Wishlist – Riaz and Mohammad
- ii. Incoming Product Backlog - Kamal
- iii. Sprint Backlog – All team members
- iv. Review meeting – Riaz and Mohammad
- v. Retrospective meeting – Jashandeep and Roshan
- vi. Backlog grooming meeting – Jashandeep and Roshan
- vii. Statement of contribution – Kamal

Report finalised and documented by Kamal

### Sprint 2:

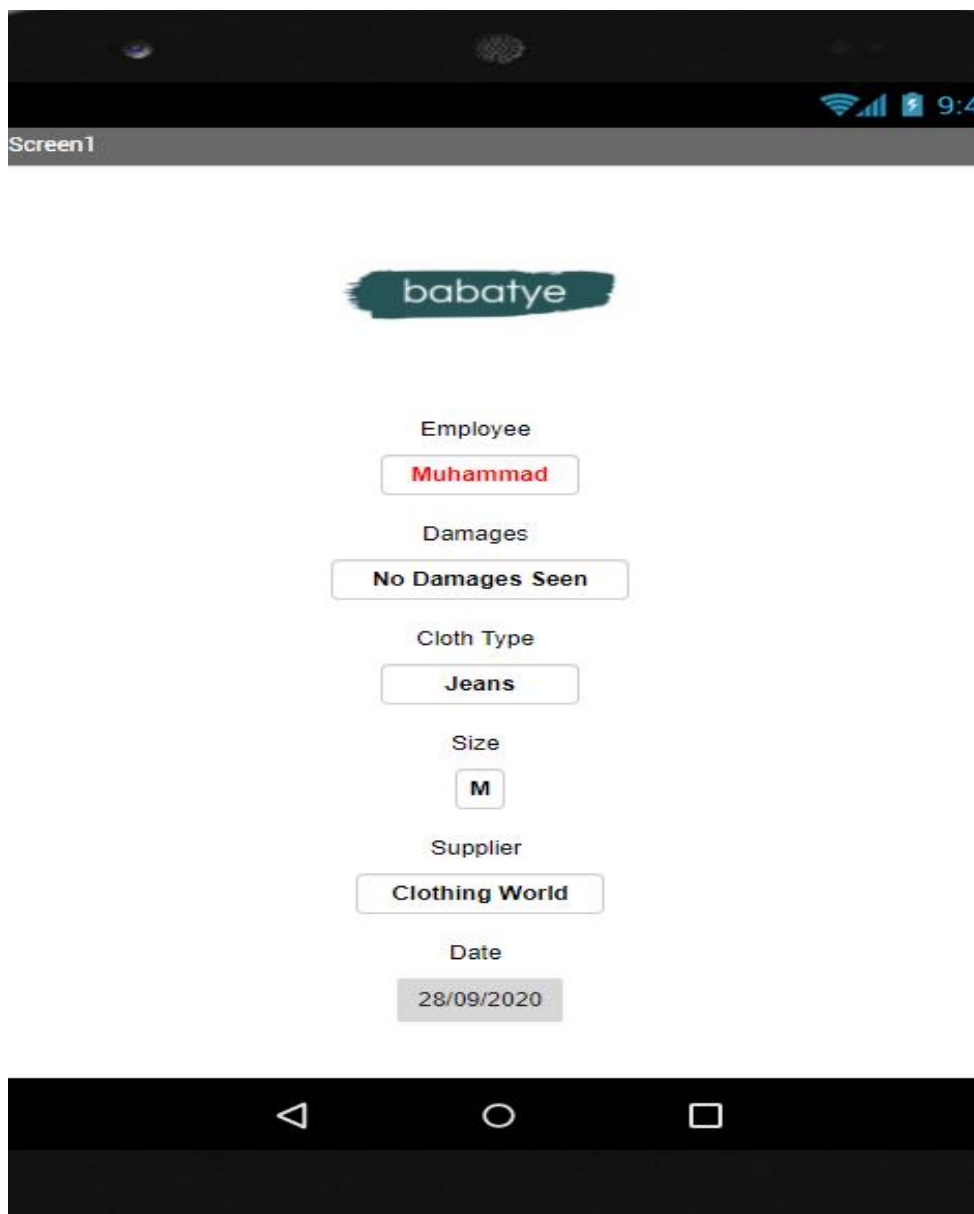
- i. Theme & Wishlist – Riaz and Mohammad
  - ii. Incoming Product Backlog – All members
  - iii. Sprint 2 Backlog – Kamal
  - iv. Review meeting – Riaz and Mohammad
  - v. Retrospective meeting – Jashandeep and Roshan
  - vi. Backlog grooming meeting – Jashandeep and Roshan
  - vii. Burndown Chart- Kamal & Mohammad
  - viii. Statement of contribution – Kamal
- Report finalised and documented by Kamal

## Progress


Task	Progress
Project Vision	Completed
Product Backlog	Completed
Project Plan	Completed
Sprint 1	Completed
Development Demonstration 1	Completed
Sprint 2	Completed
Development Demonstration 2	In progress
Prototype	In progress/Started

## Evidence of Progress in Sprint Backlog Tasks

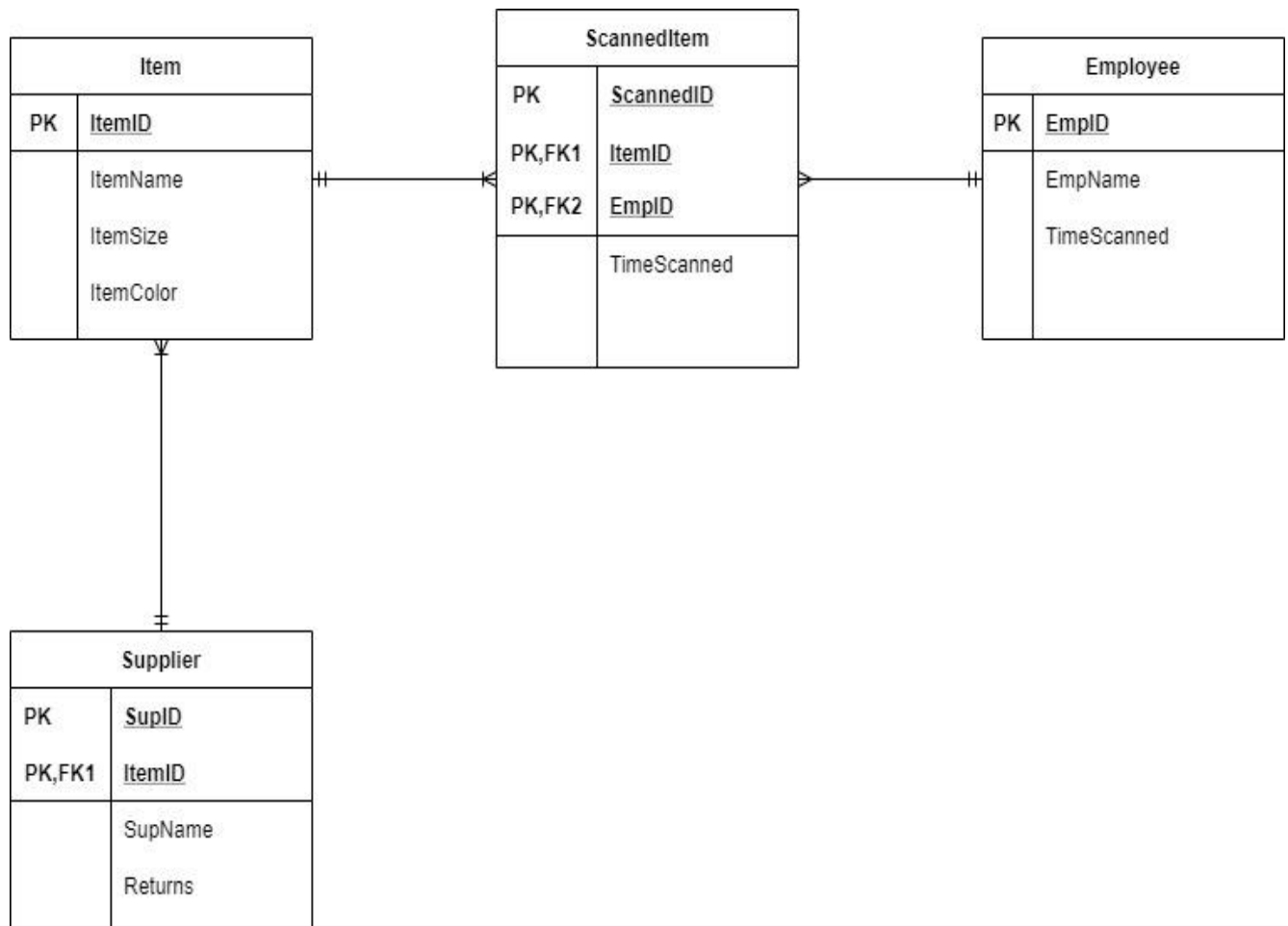
- i. Task: Interface for employees' details – Riaz



ii. Task: Database – Jashandeep & Roshan

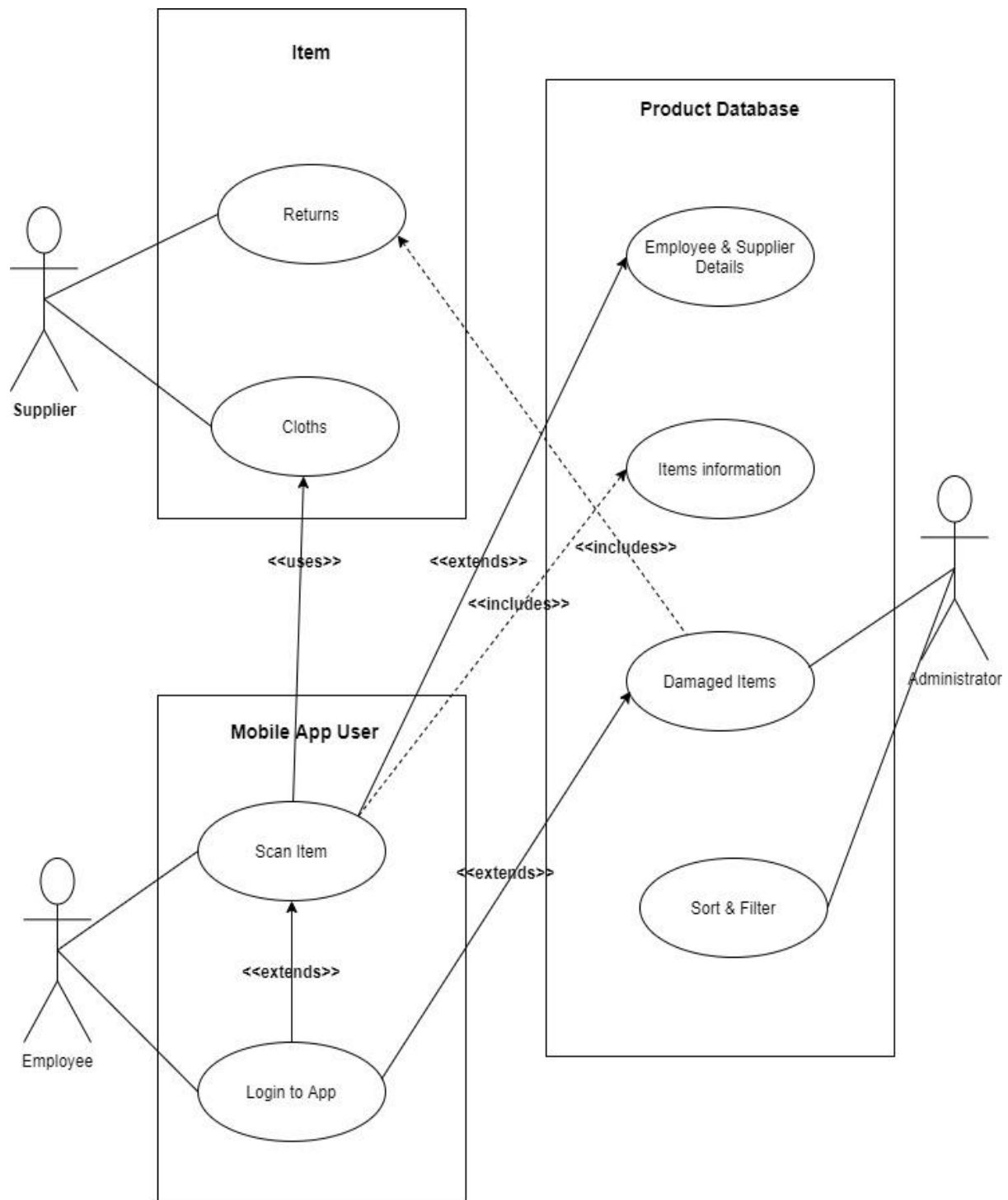
BABATYPE BARCODE APP DATABASE										
Employee	Damages	Cloth type	Size/Color	TIME OF SCANNING	SERIAL NUMBER	IN STOCK	Scanned Barocde	TIME STAMP	Manully entered	PRODUCT WEIGHT
								0/10/2020		
SINGH	No damages seen	Jacket	M/red	10:03 AM	1234	YES		3:03:00 AM		...kg
Arif Systems	YES	Shirt	L/blue	not scanned	4354	NO		9/14/2020		...kg
								1:02 PM	9 8795 4587 1253	
abc	abc	abc	abc	123	123	abc	124	abc	123	...kg
Search Database										

iii. Task: ER Diagram for database – Kamal & Mohammad

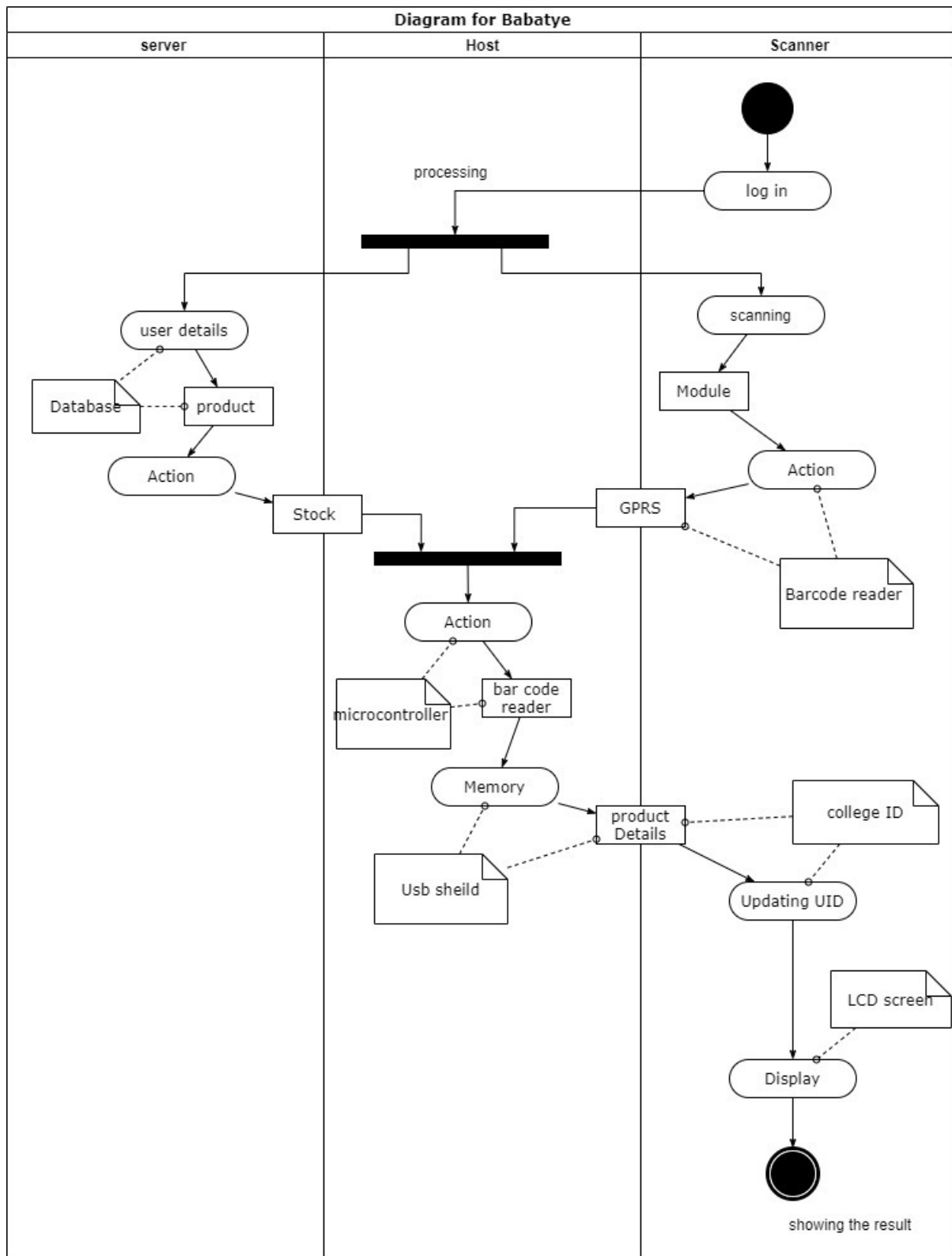




iv. Task: Use case diagram – Kamal



v. Task: Activity Diagram – Mohammad and Jashandeep



vi. Task: Screenshot of app used in different OS – Riaz & Roshan

IOS



The screenshot shows the login interface of the 'babatye' app on an iOS device. At the top, the 'babatye' logo is displayed in white text on a dark teal brushstroke background. Below the logo, the word 'EMAIL' is centered above a white rectangular input field. Underneath the email field, the word 'Password' is centered above another white rectangular input field containing eight dots. At the bottom of the form, the text 'Forgot email/password' is centered.

Android



The screenshot shows the login interface of the 'babatye' app on an Android device. At the top, the 'babatye' logo is displayed in white text on a dark teal brushstroke background. Below the logo, the word 'EMAIL' is centered above a white rectangular input field. Underneath the email field, the word 'Password' is centered above another white rectangular input field containing eight dots. At the bottom of the form, the text 'Forgot email/password' is centered.



vii. Task: Scanning interface of app – Riaz

ScanningPage

babatye



Enter Barcode

