

## **FUCULTY OF ACCOUNTING AND INFORMATICS**

### **DEPARTMENT OF INFORMATION SYSTEM**

## **GROUP B**

### **BUSINESS ANALYSIS PROJECT 301B**

INITIALS & SURNAME	STUDENT NUMBER
S NGIDI	22004256
N N HLONGWANE	22217579
A N DLADLA	22284327
N ZONDI	22126223
N S MBUYAZI	22154727
M MALINGA	22147747
B DUBE	22124072
S MANQELE	22042542
A MEMELA	22167813

# Contents

1.In	troduction	4
2. <b>F</b>	REQUIREMENTS SPECIFICATION	4
S	TAKEHOLDER/USER REQUIREMENT	4
	Customer	4
	Staff/customer representatives	5
	Manager	5
	Administrator	5
2	.2.1 BUSINESS REQUIREMENTS	6
2	.2 .2 CUSTOMER REQUIREMENTS	7
2	.2.3 CUSTOMER REPRESENTATIVE REQUIREMENTS/STAFF	8
2	.2.4 MANAGER REQUIREMENTS	8
2	.2.4 ADMINISTRATOR REQUIREMENTS	8
2	.3.1. FUNCTIONAL REQUIREMENTS	9
2	.3.2.NON-FUNCTIONAL REQUIREMENT	11
2	.3.4. TRANSICTIONAL REQUIREMENTS	12
	TRANSITION REQUIREMENT PRIORITY	12
2	.4. PRIOTIZING USER REQUIREMENT	13
L	ISECASE	15
A	CTIVITY DIAGRAM	16
3.R	equirement Verification	17
4. F	REQUIREMENT VALIDATION	19
4	.2.1. Customer	19
4	.2.2. Staff	19
4	.2.3. Manager	19
4	.2.4. Administrator	20
4	.3. TRANSTION REQUIREMENT	20
Т	RANSTION REQUIREMENTS	20
P	RIOTIZING REQUIREMENTS VALIDATION	21
5. <b>F</b>	REQUIREMENT ARCHITECTURE	23

6. DESIGN OPTIONS	24
Designs	24
Consideration	24
Benefit	24
7. POTENTIAL VALUE	30
Solution One: Custom Rewards Online Points System	30
Benefits Description	30
Solution Two: Third-Party Online Points System	33
8. CONCLUSION	35
9. REFERENCES	36

#### 1.Introduction

Garment Division, a popular clothing store known for its stylish and affordable fashion, has long been committed to rewarding its loyal customers. The store currently offers a manual loyalty card system, where customers earn points with every purchase over a certain amount of time. However, while the program is appreciated by many, it comes with a significant drawback: if a customer loses their card, they also lose all accumulated points. To address this issue and enhance the shopping experience, the solution that is proposed is to introduce a new online customer points system. This digital solution will securely store all customer points, ensuring that points are never lost, even if the physical card is misplaced. With this upgrade, customers can easily track their points, redeem rewards, and enjoy a seamless, worry-free shopping experience at Garment Division.

#### 2. REQUIREMENTS SPECIFICATION

#### STAKEHOLDER/USER REQUIREMENT

#### Customer

- SCR1-Customer must register with required information. Name, Surname,
   Cell phone number, Email(optional), ID number, Address, then create a password
- SCR2-Customer must be able to log in securely using email and password or social media credentials.
- SCR3-Customer must be able to update personal information
- SCR4Customer must be able to view history of earned and redeemed points
- SCR5-Customer must be able to check if they qualify for discount
- SCR6-Customer must be able to check discount balance
- SCR7-Customer must be able to track number of points
- SCR8- Customer must be able to logout from the system

# Staff/customer representatives

- SR01- staff must be able to login on behalf of customer using customer login details
- SR02-Staff must be able to access customer data
- SR03-Staff must be able to update customer data
- SR04-Staff must be able to redeem points using cell phone/ID number

# Manager

- SMR1-manager must be able to login to their account
- SMR2-manager must be able to track employee history
- SMR3-manager must be able to track customer points and redeemed history.
- SMR3-manager must be able to update customer information.

### Administrator

- SA1-Admin must be able to register.
- SA2-Admin must be able to log in.
- SA3-Admin must be able to configure reward program.
- SA4-Admin must be able to manage customer account.
- SA5-Admin must be able to generate report.
- SA6-Admin must be able to view customer information.

# 2.2.1 BUSINESS REQUIREMENTS

BUSINESS	DESCRIPTION	STAKEHOLDER
REQUIREMENT		REQUIREMENT
NUMBER		
BRA1	GD live to fulfil the commitment of selling high	SCR5, SCR6, SA3
	quality clothing at low prices by discount point	
	earned	
BRA2	GD objectives is to always retain their	SCR5, SCR1,
	customer, for their different clothing needs	SCR2
	through a loyalty program	
BRA3	GD aim to drive advocacy and referrals.	SA11, SA10
	Better customer insight through customer	
	data and feedback. To improve product	
	development and cost efficacies	
BRA4	GD system will integrate with the stores POS	SA13, SA10
	system to track purchase and assign points	
BRA5	GD system will send notification about	SCR1
	promotions or offers that can earn extra point	

# 2.2 .2 CUSTOMER REQUIREMENTS

REQUIREMENT NUMBER	REQUIREMENT SPECIFICATION	
CR01	Customer must register with required	
	information. Name, Surname, Cell	
	phone number, Email(optional), ID	
	number, Address, then create a	
	password	
CR02	Customer must be able to log in	
	securely using email and password or	
	social media credentials.	
CR03	Customer must be able to update	
	personal information	
CR04	Customer must be able to view history	
	of earned and redeemed points	
CR05	Customer must be able to check if they	
	qualify for discount	
CR06	Customer must be able to check	
	discount balance	
CR07	Customer must be able to track number	
	of points	

# 2.2.3 CUSTOMER REPRESENTATIVE REQUIREMENTS/STAFF

REPRESENTATIVE NUMBER	REPRESENTATIVE SPECIFICATION
CRR01	Staff must be able to login on behalf of
	customer using customer login details
CRRO2	Staff must be able to access customer
	data
CRR03	Staff must be able to update customer
	data
CRR04	Staff must be able to redeem points
	using cell phone/ID number

# 2.2.4 MANAGER REQUIREMENTS

REPRESENTATIVE NUMBER	REQUIRMENTS SPECIFICATION
MR01	as a manager I must be able to login in
	my account
MR02	as manager I must be able to track
	employee history
MR03	as a manager I must be able to track
	customer points redeemed history.
MR04	as manager I must be able to update
	customer information.

# 2.2.4 ADMINISTRATOR REQUIREMENTS

REQUIREMENT	REPRESANTATIVE SPECIFICATION
NUMBER	
AR01	Admin must be able to register.
AR02	Admin must be able to log in.
AR03A	Admin must be able to manage customer account.
AR04	Admin must be able to configure reward program.
AR05	Admin must be able to generate report.

AR06	Admin must be able to view customer information.

## 2.3.1. FUNCTIONAL REQUIREMENTS

- FR1-User must be able to create and update their accounts.
- FR2-User must be able login once they have successfully created an account.
- FR3-Different end-user must be able to sign-in.
- FR4-System must automatically update earned points each time loyalty card is used.
- FR5-User must be able to see their current balance in rands.
- FR6-Website must be able to show current in-store sales.
- FR7-User should be able to track their purchase history.
- FR8-User must be able to track redeemed points.
- FR9-Customer must be able to use their points to get discount.
- FR10-Website must have helpdesk with working contact information.
- FR11-End-user must be able to give their feedback.
- FR12-Manager should be able to access user activity.
- FR13-All user information should be securely encrypted.
- FR14-System should be able to detect any illegal activities.

FR	FUNCTIONAL	DESCRIPTION	PRIORITY
NUMBER	REQUIREMENT		
FR01	User registration	User must be able to create	high
		and update their accounts	
FR02	Login/Logout	User must be able login once	high
		they have successfully	
		created an account	
FR03	Role	Different end-user must be	high
	management	able to sign-in	
FR04	Point	System must automatically	high
	accumulation	update earned points each	
		time loyalty card is used	
FR05	Point display	User must be able to see their	high
		current balance in rands	
FR06	Sales listing	Website must be able to show	high
		current in-store sales	
FR07	Purchasing	User should be able to track	medium
	history	their purchase history	
FR08	Redemption	User must be able to track	high
	history	redeemed points	
FR09	Point at checkout	Customer must be able to use	high
		their points to get discount	
FR10	Help desk	Website must have helpdesk	high
		with working contact	
		information	
FR11	Feedback	End-user must be able to give	high
	submission	their feedback	
FR13	User insight	Manager should be able to	high
		access user activity	
L	i .		i .

FR14	Data encryption	All user information should be	high
		securely encrypted	
FR15	Fraud prevention	System should be able to	high
		detect any illegal activities	

### 2.3.2.NON-FUNCTIONAL REQUIREMENT

- NFR1-The system should have a quick response reaction time of 2 second.
- NFR2-The system should be able to handle online traffic.
- NFR3-The system should perform all expected requirement.
- NFR4-The system should be able protect customer sensitive information and have regular system checks.
- NFR5-The system should be easy and inviting to use navigate
- NFR6-The system should have an uptime of 99,99% ensuring accessibility most of the time.
- NFR7-The website should be deployable in different environment
- NFR8-The system should have module architecture to allow for easy updates.
- NFR9-User must be able to refer friends to a loyalty program website

NRF	NON-	NFR DESCRIPTION	PRIORITY
NUMBER	FUNCTIONAL		
	REQUIREMENT		
NFR1	Response time	The system should have a quick	high
		response reaction time of 2 second.	
NFR2	scalability	The system should be able to handle	high
		online traffic.	
NFR3	performance	The system should perform all	high
		expected requirement.	
NFR4	security	The system should be able protect	high
		customer sensitive information and	
		have regular system checks.	

NFR5	usability	The system should be easy and inviting to use navigate	high
NFR6	reliability	The system should have an uptime of 99,99% ensuring accessibility most of the time.	high
NRF7	portability	The website should be deployable in different environment	low
NRF8	maintenance	The system should have module architecture to allow for easy updates.	medium
NRF9	Referral program	User must be able to refer friends to a loyalty program website	high

# 2.3.4. TRANSICTIONAL REQUIREMENTS

- TR1-Transfer data from old system which is manual loyalty card to new system which is website ensuring all data is accurate.
- TR2-Training staff about the new system.
- TR3-The website should be integrated within other existing system.
- TR4-Covers all phases of the deployment.

# TRANSITION REQUIREMENT PRIORITY

TR	TRANSITION	TR DESCRIPTION	PRIORITY
NUMBER	REQUIREMENT		
TR1	Data migration	Transfer data from old system	high
		which is manual loyalty card to	
		new system which is website	
		ensuring all data is accurate.	
TR2	Transition and	Training staff about the new	high
	training	system.	
TR3	System integration	The website should be integrated	high
		within other existing system.	
TR4	Deployment and roll	Covers all phases of the	medium
	out	deployment.	

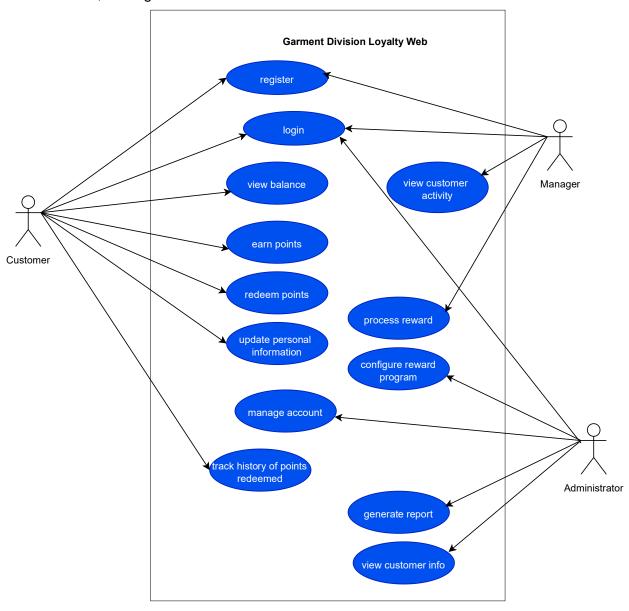
# 2.4. PRIOTIZING USER REQUIREMENT

USER TYPE	HIGH PRIORITY	MEDIUM	LOW
		PRIORITY	PRIORITY
CUSTOMER	SCR1: Register using	SCR4: View	SCR6:
	Name, ID number, Cell	history of points	Check
	phone number	earned and	discount
	0000 1 1 11	redeemed	balance
	SCR2: Login with		
	password		
	SCR3: Update personal		
	information		
	SCR5: Track number of		
	points		
	SCR8: Logout from system		
STAFF	SR01: log in on behalf of	SR02: access	
	customer	customer data	
	SR03: Update customer	SR04: redeemed	
	data/information	point for	
		customer using	
		ID number	
MANAGER	SMR1: Log in	SMR2: Track	
	OMB 4 11 1 4	employee history	
	SMR4: Update customer	01450 7	
	information	SMR3: Track	
		customer points	
		redeemed	

ADMINISTRATOR	SA1: Register account	SA3: Configure	SA5:
		reward program	Generate
	SA2: Login		report
		SA6: View	
	SA4: Manage customer	customer	
	account	information.	

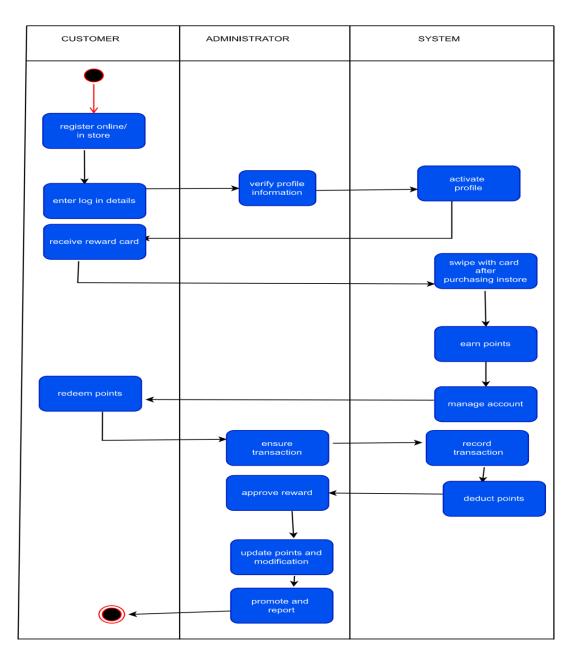
## **USECASE**

The diagram below displays use case with three action representing stakeholders that demonstrate how they will be using recommended category that would be added on JADSOFT which is the current system for GD clothing. The use case represents relation of customer and the web giving the activities that will be present on the web for customers, manager activities as well as Administration.



### **ACTIVITY DIAGRAM**

This activity diagram illustrates the interactions between customers and administrators within a garment division system. Customers register, log in, and manage their accounts, earning and redeeming points for purchases. The system facilitates these interactions, updating balances, reward statuses, and account information accordingly. Overall, the diagram showcases the seamless integration of customer and administrative tasks within the garment division system.



# 3. Requirement Verification

The Requirement Verification for a Point Card System is the process of ensuring that the requirements are Review which is about inspect requirement document and design specification, inspect which is about conduct walkthrough peer review, Test which is about perform unit testing and acceptance testing and Analysis which is about perform static and dynamic analysis of the system. This ensure that the service satisfy the user need.

Business	Review	Inspect	Test	Analysis
Requirement				
BR1	<b>~</b>	<b>✓</b>	<b>✓</b>	<b>✓</b>
BR2	<b>~</b>	~	<b>~</b>	<b>✓</b>
BR3	<b>~</b>	<b>~</b>	<b>~</b>	<b>✓</b>
BR4	<b>~</b>	~	<b>~</b>	<b>✓</b>
BR5	<b>~</b>	~	<b>~</b>	<b>~</b>

Stakeholder	Review	Inspect	Test	Analysis
Requirement				
Customer	<b>~</b>	~	<b>~</b>	<b>~</b>
Customer	<b>~</b>	~	<b>~</b>	<b>~</b>
Representative				
Manager	<b>~</b>	~	<b>~</b>	<b>✓</b>
Administrator	<b>~</b>	<b>~</b>	<b>~</b>	~

Functional	Review	Inspect	Test	Analysis
Requirement				
FR1	<b>~</b>	~	<b>~</b>	<b>✓</b>
FR2	<b>~</b>	~	<b>✓</b>	<b>~</b>
FR3	<b>~</b>	~	<b>✓</b>	<b>~</b>
FR4	<b>~</b>	~	<b>~</b>	<b>~</b>
FR5	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
FR6	<b>~</b>	<b>~</b>	<b>✓</b>	<b>~</b>
FR7	<b>~</b>	~	<b>~</b>	<b>~</b>
FR8	<b>~</b>	<b>✓</b>	<b>~</b>	<b>~</b>
FR9	<b>~</b>	~	<b>~</b>	~
FR10	<b>~</b>	~	<b>~</b>	<b>~</b>
FR11	<b>~</b>	<b>✓</b>	<b>~</b>	<b>~</b>
FR12	<b>~</b>	~	<b>~</b>	<b>~</b>
FR13	<b>~</b>	~	<b>✓</b>	<b>~</b>
FR14	<b>~</b>	~	<b>~</b>	<b>✓</b>
FR15	<b>~</b>	~	<b>~</b>	~

Non-	Review	Inspect	Test	Analysis
Functional				
Requirement				
NFR1	<b>~</b>	<b>✓</b>	<b>~</b>	<b>✓</b>
NFR2	<b>~</b>	~	<b>~</b>	<b>~</b>
NFR3	<b>~</b>	~	<b>~</b>	<b>~</b>
NFR4	<b>~</b>	~	<b>~</b>	<b>~</b>
NFR5	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>
NFR6	<b>~</b>	~	<b>~</b>	<b>✓</b>
NFR7	<b>✓</b>	<b>~</b>	<b>~</b>	<b>~</b>
NFR8	<b>~</b>	<b>~</b>	<b>~</b>	<b>~</b>

### 4. REQUIREMENT VALIDATION

#### 4.1. Validation Process:

RVP1: A review of stakeholder requirements

RVP2: Walkthroughs and demonstrations with stakeholders

RVP3: Prototype testing with customers, staff, managers, and administrators

RVP4: Surveys and feedback forms

RVP5: Comparison to industry benchmarks and best practices Evaluation

Criteria:

## 4.2.1. Customer

RVC1: Ease of registration and login

RVC2: Accuracy in points tracking and redemption

RVC3: Usability of the interface

RVC4: Accessibility of account information

RVC5: Effectiveness of the notification system

### 4.2.2. Staff

**RVS1**: Efficient Customer Data Management

RVS2: Ease of point redemption process

RVS3: Accuracy of customer information updates

RVS4: Effectiveness of staff training

### 4.2.3. Manager

RVM1: Accuracy of employee history tracking

RVM2: Effectiveness of customer points tracking

RVM3: Timeliness of reports generation

RVM4: Easier to update customer information

## 4.2.4. Administrator

RVA1: Ease account administration

RVA2: Effectiveness of reward program configuration

RVA3: Focusses on accurate customer information RVA4: Timely

report generation.

# 4.3. TRANSTION REQUIREMENT

TR1: Successful data migration from manual loyalty card system

TR2: Provides effective staff training

TR3: Integration seamlessly with existing systems

TR4: Ensures smooth deployment and rollout

# TRANSTION REQUIREMENTS

TR Number	Transition	TR Description	Priority
	Requirements		
TR1	Data Migration	Successful data migration	High
		from manual loyalty card	
		system	
TR2	Staff Training	Provides effective staff	Medium
	Effectiveness	training	
TR3	System integration	Integration seamlessly with	High
		existing systems	
TR4	Deployment and	Ensures smooth	High
	Rollback	deployment and rollout	

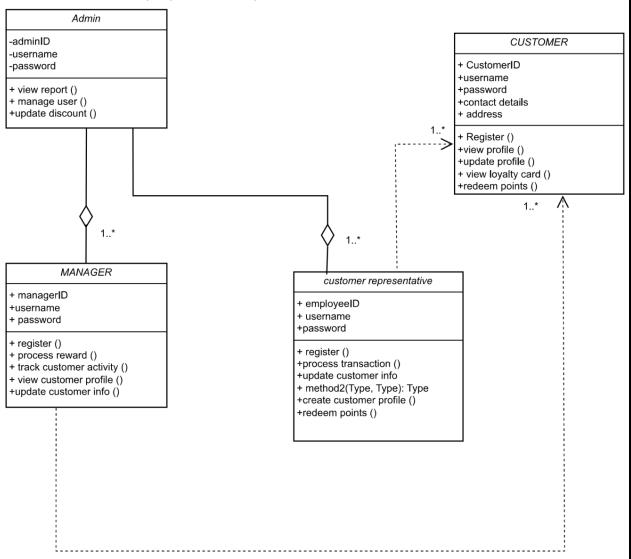
# PRIOTIZING REQUIREMENTS VALIDATION

HIGH	MEDIUM	LOW
RVC1: Ease	RVC4: Account	
of registration	information	
and login	accessibility	
RVC2: Accuracy	(consumer	
in points	convenience)	
tracking and	Staff	
redemption	RVC5: Usability of	
RVC3:	the interface	
Accessibility of	(important for user	
account	experience).	
information		
RVC4:		
Effectiveness		
of the notification		
system		
RVS1: Efficient	RVS5: Training	
Customer Data	staffs	
Management	RVS6: Spend more	
RVS2: Ease of	time on customer	
point redemption	data management	
process RVS3:		
Accuracy of		
customer		
information		
updates RVS4:		
Effectiveness of		
staff training		
RVM1: Accuracy	RVM5: Ease of	
of employee	updating customer	
history tracking		
	RVC1: Ease of registration and login RVC2: Accuracy in points tracking and redemption RVC3: Accessibility of account information RVC4: Effectiveness of the notification system RVS1: Efficient Customer Data Management RVS2: Ease of point redemption process RVS3: Accuracy of customer information updates RVS4: Effectiveness of staff training RVM1: Accuracy of employee	RVC1: Ease of registration and login accessibility RVC2: Accuracy in points convenience) tracking and redemption RVC3: the interface (important for user experience).  RVC4: Effectiveness of the notification system  RVS1: Efficient Customer Data Management RVS2: Ease of point redemption process RVS3: Accuracy of customer information updates RVS4: Effectiveness of staff training  RVM1: Accuracy of employee RVM5: Ease of updating customer of the polygen account with the interface (important for user experience).

	RVM2:	information (Support	
	Effectiveness of	data maintaince)	
	customer points		
	tracking		
	RVM3: Timeliness		
	of reports		
	generation		
	RVM4: Easier to		
	update customer		
	information		
Administration	RVA1: Ease		
	account		
	administration		
	RVA2:		
	Effectiveness of		
	reward program		
	configuration		
	RVA3: Focusses		
	on accurate		
	customer		
	information		
	RVA4: Timely		
	report		
	generation.		

### 5. REQUIREMENT ARCHITECTURE

The following structure represents a class diagram, showing the relationships between the classes. This diagram displays how the stakeholders relate with one another inside the Loyalty card web system.



#### 6. DESIGN OPTIONS

# **Designs**

The following designs present web examples that we have recommended for GD clothing store. Picture, one displays the welcome screen which allows the user to login, Picture two displays the registration screen, Picture three displays the view for customer's account, picture four represent a web page for admin and lastly a web page for the manager. All these web pages are fully defined on the requirements.

#### Consideration

- **Customer data security:** ensure system complies with data protection regulations to safeguard customer information. Implement rebuts encryption and security protocols to protect sensitive data.
- User friendly interface: design a simple and intuitive interface for customers to easily track their points and redeem rewards. Consider mobile optimization accessibility.
- **Customer education:** develop clear communication strategies to educate customer about new system, including support channel
- Migration of existing data: plan for safe transfer points from the manual system to the new digital platform, ensuring that no customer loses their previously accumulated points
- Incentives fir transaction: consider offering limited time bonus or promotions to encourage customer to register for the new system and engage with it.

#### Benefit

- **Security and convenience:** customer longer have to worry about losing their loyalty card as their points will be stored online.
- **Easy tracking:** customer can effortlessly monitor their points balance and transaction history through a user-friendly interface.
- **Simplified redemption:** the system streamlines the process of redeeming reward, making it quicker and more efficient.
- Enhance engagement: with an online system, garment division can communicate promotions and personalized offers directly to consumers, fostering greater loyalty.
- Data insight: the store can analyze customer behavior and preferences, allowing for improved marketing strategies and tailored experiences.

Stakeholder: customer	
requirements	System component
Register for an account	system
• Login	
View balance	
Earn points	
Redeem points	
Update personal information	
Track history of redeemed points	

Stakeholder: staff	
requirements	System component
• Login	system
Access customer data	
Update customer data	
Redeem points	

Stakeholder: Administrator	
requirements	System component
• Login	dashboard
<ul> <li>Confirm reward program</li> </ul>	
Manage account	
Generate report	
View customer info	

Stakeholder: manager	
requirements	System component

Register for an account	dashboard
• Login	
<ul> <li>View customer activity</li> </ul>	
<ul> <li>Process reward</li> </ul>	

## PICTURE 1



# **GARMENT DIVISION**

New user register for account

Email	
	Login
Password	

# PICTURE 2

### Welcome to registration page

Enter the following required information to create account

Email	m.malinga360@gmail.com	٠
Cell number +27	064 778 9456	*
Create user name	Mlondi	*
Create password	******	*
Confirm password	*******	•
	Accept privacy policy ✓	
	Register Account	



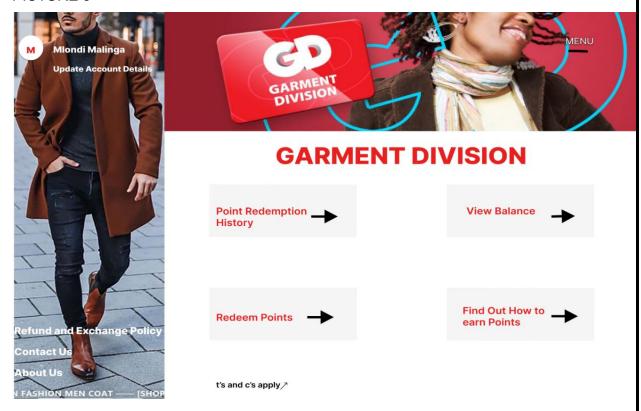
GD

At Garment Division, we live to fulfill our commitment to sell Unbeatable fashion at Unbeatable prices for the whole family, from infants to adults. Specializing in fashion and core clothing, shoes and accessories at discounted prices.

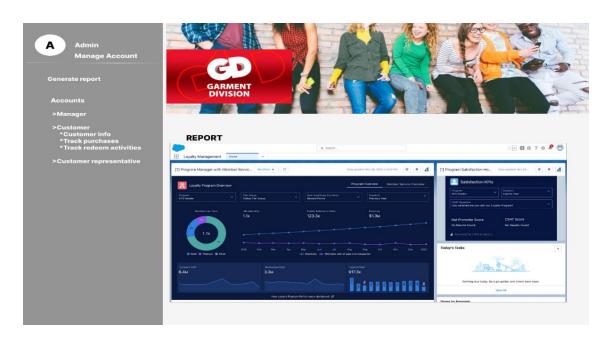
Find out our terms and conditions for loyalty points.

Read our privacy policy

## PICTURE 3



# PICTURE 4



# PICTURE 5



#### 7. POTENTIAL VALUE

Solution One: Custom Rewards Online Points System

# Benefits Description.

- Customer Retention: The company has about 1 000 members for the loyalty program of which 16% of them are partially actively using their rewards. This program will retain these customers. With an average revenue from loyalty program sales of R828 875, 00 from all royalty program customers. The company can expect an average customer retention of 14% out of 16% partially active customers of R828 875,00 for year one. This will increase to 16% in year two, the average benefit will increase with customer as years goes by.
- Increased Sales: The company can expect increased sale from year by 8% on year one, 14% on year two from an average of R1 200 000 then anticipated increase to R1 265 000 of total revenue year three sales will be up by 0,05% they will have increased by 20%.
- Marketing Saving: With an increasing number of customer retention, increasing sales and the loyal customers the marketing department can decrease marketing spending after year one of successfully implementing the system. From the total marketing spending they can minimize spending by 64% of R11 000 on year two and in year 3 a decrease of 63% of 8 000.
- Company Value: With outsourced development the company will be fully owning the system. This system will be categorized as an asset of value to the compony this will increase the net worth/ value of the company by 5% over years.

Benefits	Year One	Year Two	Year Three	Total Benefits
Customer				
Retention	R116 042,50	R132 620,00	R165 600,00	R 414 262,50
Increased Sales	R 96 000,00	R168 000,00	R220 000,00	R 330 000,00
Customer				
Acquisition	R100 000,00	R120 000,00	R160 000,00	R 380 000,00
Customer				
Spending	R 50 000,00	R 80 000,00	R120 000,00	R 250 000,00
Cross Sales	R -	R 15 000,00	R 25 000,00	R 40 000,00
Marketing Savings	R -	R 4 000,00	R 3 000,00	R 7 000,00
Frequent				
Purchases	R 11 000,00	R 25 000,00	R 35 000,00	R 71 000,00
Company Value	R100 000,00	R150 000,00	R200 000,00	R 450 000,00
Total Yearly				
Benefits	R473 042,50	R694 620,00	R928 600,00	R1 942 262,50

Costs	Year One	Year Two	Year Three	Total Costs
Design &				
Development	R 200 000,00	R -	R -	R 200 000,00
Hosting	R 10 000,00	R 10 000,00	R 10 000,00	R 30 000,00
Security Features	R 8 500,00	R 9 500,00	R 9 500,00	R 27 500,00
Maintenance &				
Update	R 20 000,00	R 20 000,00	R 20 000,00	R 60 000,00
Marketing &				
Promotion	R 15 000,00	R 11 000,00	R 8 000,00	R 34 000,00
Reward				
Redemption	R 150 000,00	R150 000,00	R150 000,00	R 450 000,00
Total Yearly				
Costs	R 403 500,00	R200 500,00	R247 500,00	R 801 500,00

Net Present Value = Present Value of Benefits - Present Value of Costs NPV= 1 942 265, 50 - 801 500

**NPV= 4 686 025,00** 

Return on Investment= Gain from Investment – Cost of Investment / Cost of Investment \* 100%

ROI= 1 942 265,50 - 801 500 / 801 500 \* 1

**ROI= 1,42%** 

# Solution Two: Third-Party Online Points System

Costs	Year One	Year Two	Year Three	Total Costs
Labour	R 700 000,00	R 550 000,00	R 550 000,00	R 1 800 000,00
Software Tools	R 10 000,00	R 6 000,00	R 6 000,00	R 22 000,00
Update &				
Maintenance	R -	R 3 000,00	R 3 000,00	R 6 000,00
Miscellaneous	R 50 000,00	R 5 000,00	R 50 000,00	R 105 000,00
Hosting	R 10 000,00	R 10 000,00	R 10 000,00	R 30 000,00
Domain				
Registration	R 2 000,00	R -	R -	R 2 000,00
System				
Integrations	R 5 000,00	R -	R -	R 5 000,00
Security Features	R 8 000,00	R 7 000,00	R 6 000,00	R 21 000,00
Reward				
Redemptions	R 150 000,00	R 150 000,00	R 150 000,00	R 450 000,00
Promotion	R 15 000,00	R 11 000,00	R 8 000,00	R 34 000,00
Total Yearly				
Costs	R 950 000,00	R 742 000,00	R 783 000,00	R 2 475 000,00

Benefits	Year One	Year Two	Year Three	Total Benefits
Customer				
Retention	R 116 042,50	R 132 620,00	R 165 600,00	R 414 262,50
Increased				
Sales	R -	R 90 000,00	R 90 000,00	R 180 000,00
Customer				
Acquisition	R -	R 150 000,00	R 185 000,00	R 335 000,00
Customer				
Spending	R 50 000,00	R 75 000,00	R 100 000,00	R 225 000,00
Marketing				
Savings	R -	R 8 000,00	R 12 000,00	R 20 000,00
Company				
Value	R -	R 150 000,00	R 200 000,00	R 350 000,00
Frequent				
Purchasing	R -	R 20 000,00	R 40 000,00	R 60 000,00
Cross Selling	R -	R 25 000,00	R 50 000,00	R 75 000,00
Total Yearly				
Benefits	R 166 042,50	R 650 620,00	R 842 600,00	R 1 659 252,50

Net Present Value = Present Value of Benefits - Present Value of Costs

NPV= 1 659 252,5 - 2 475 000

NPV= -815 747,5

Return on Investment – Gain from Investment – Cost of Investment / Cost of Investment \* 100%

ROI= 1 659 252,5 - 2 475 000 / 2 475 000 \* 1

**ROI= -0,33** 

Out of the two possible solution the most feasible solution is a loyalty program software which is available in a form of a web-app and mobile app. The benefits of this software outweigh the benefits of the CRM system also the costs are outweighed. Looking at the Return of Investment of solution one is positive this means that the investment will generate the profit and the ROI is higher for solution one this indicates that the investment is more profitable. The Net Present Value of

solution one is positive which means the project is expected to generate a return greater than the required rate of return and is therefore considered profitable.

### 8. CONCLUSION

In summary the aim of this document was to provide Garment Division with solutions on improving their business. Above we have shown how the proposed system will operate and how its stakeholders will interact with it. You can clearly see the cost and benefits that come with the proposed solutions that we have come up with. When looking at all the provided numbers and values one can clearly see that proceeding with Outsourcing will save the business money during the development of the entire project. We are certain that with this proposal we can help the business achieve its objectives and drive success

### 9. REFERENCES

chen, j., 2020. wirefram based UI design search through image autoencoder.. s.l.:s.n.

MULVEY, P., 2013. BUSINESS ANALYSIS FOR DUMMIES. 3RD ed. CANADA: WILEY AND SONS, INCL.

NICHOLAS, J., 2013. WHAT ARE THE UNDERLYING COMPENTENCIES OF BUSINESS ANALYST. [Online]

Available at: <u>HTTPS//BUSINESSANALYSISMENTOR.COM/UNDERLYING-COMPARETEN</u> [Accessed 20 AUGUST 2022].

TORONTO, 2015. International institute of business analysis. In: *BABOK V3*. CANADA: s.n., p. 402.