Aperture By Octech Solutions

Formal Team

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The Vision

Aperture is a photo sharing application set in a fun, competitive and educational environment.

By allowing users to create and enter photography challenges and gain points on their posts, aperture succeeds at giving users a unique gaming experience with players guaranteed a multitude of options to win challenges, badges and collect profile points.

Aperture allows users to share, comment and provide constructive feedback on posts in hopes of building an active, fun, encouraging and ever growing community of photography enthusiasts, hobbyists, professionals, gamers and anyone else who may be curious.

Every user's user experience, suggestions and privacy is important to us. Aperture enables users to report any content that they deem inappropriate or bugs that they discover to app managers. All application users shall follow a strict "no human in image" policy in adherence to our efforts at keeping this platform unbiased, focused on user contribution and free from legal hap hassle.

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1. Overview of the System (Gayathri)

High-level overview of technologies and components.

Aperture is a responsive, cross-browser compatible, web-based application developed primarily using ReactJS and supporting services.

1.1. Technology Used

- HTML, CSS, JavaScript
- React JS, JSX
    - React DOM
    - React Bootstrap
    - React-HTML5-Camera-Photo API
    - React-Redux
    - React Flip-Move
- Google Firestore (database, auth, storage)
- Material UI
- Compress.js
- Node Package Manager (NPM)
- Visual Studio Code
- Github

MORE ...

1.2. High level Components

1. **User Account System**

   This component handles user signup/login, profile creation/deletion/management and validation of user details. This component ensures that users submit consent forms in order to upload a photo of themselves as their profile picture or alternatively choose from pre-defined avatar pictures instead.

2. **Content Creation System**

   This component focusses on enabling users to create/destroy content on the application. Users may create posts (comprising of images - via image upload/taken using camera, associated GPS data and text), channels, collections, challenges and a portfolio. Users may delete any content that they have created. Features supported include modification of images during upload, tagging of objects/public events in images and sharing of content (on feedback/gaming forums, profile, collections, channels, challenges and portfolio).

3. **User Interaction System**

   This component enables interaction among users and/or application managers. Facilitated features include a chat between users, rating of posts, point (profile/challenge points) tracking, adding/deletion of comments, sending/accepting/ignoring friend requests, blocking/unblocking of users, following/unfollowing of channels, a feedback forum, a gaming forum, search/explore facility, news feed fetching, leaderboard management, participation in challenges, notification handling, user content/bug/help reporting management and making recommendations.

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2. Detailed Design (Elfarash, Hasan, Assad, Gaurav(Class Diagram))

Dataflow diagrams, UML diagrams, Class diagrams, etc.

This section features visual aids that clarify/support design choices made. Significant diagrams that were described in detail in stages 1 and 2 of this project shall be revisited here in addition to new ones.

MORE ...

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3. Final Interface Design

This section in addition to design elements and thoughts behind the final product, captures approaches that were taken and milestones reached along the way. Also included is a brief description of testing methods adopted to ensure technical correctness and a short guide to application installation, setup, maintenance and usage.

3.1. Application Layout & Navigation (Elfarash, Yoshi)

Layout and navigation of the application or applications.

MORE ...

3.2. Implementation Methodology (Gayathri)

Iterations/Scrum/Other agile techniques?

It was decided after considering both a fully pre-planned approach and an agile approach that agile process scrum would be the best choice of implementation strategy particularly because the slight wiggle room that agile provides is ideal for accommodating learning curves that would have to be overcome in order to produce a final product.

Since all developers are students, it was expected that there would be a need to revisit and refine parts of the application from time to time. This approach of coming back to an implemented portion to further test and refine it in iterations was adopted to ensure that implemented parts of the application were indeed functional.

The primary implementation schedule involved weekly scrums where every team member would be allocated certain tasks to complete for the week. Given the COVID-19 scenario, all group meetings were online. Efforts were made to ensure that at least 1 meeting via Microsoft Teams occurred every week. All the while, the team remained constantly in touch with each other via a shared and project only WhatsApp group. Additionally, weekly meetings where the line manager was present took place every week.

It was decided that each member would regularly update all other members via shared WhatsApp group exclusive to scrums, about their progress in what was termed a "Daily Scrum Report". This report would include what the member had been able to implement the previous day and what he/she was hoping on implementing on the current day. If a member was unable to complete his/her allocated task in the given time frame, then this task would be reallocated to the same/another member for the next scrum.

This system although initially agreed upon was slowly established through the 3 stages. This system was fully in place and efficient starting mid stage 2.

EDIT IF NEEDED ...

3.3. Development History (Gayathri)

What was achieved in each iteration/sprint?

MORE ...

3.4. Testing Regimen (Yoshi)

How was the final system tested for technical correctness?

MORE ...

3.5. Install - Setup - Maintain (Baber)

Documentation on how to install/setup/maintain the final system.

MORE ...

3.6. User Guide (Baber)

Short user guide.

MORE ...

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4. Project Evaluation

Assess project as a whole.

This section, after an overall analysis of the the production process and final product, lays out organizational approaches taken, the development journey and value of the final product (includes descriptions of functionality achieved, limitations, unique elements and usability test results).

4.1. Organization (Gayathri)

4.1.1. Organizational Structure

How was your group organized?

MORE ...

4.1.2. Success Story

Was the group organization successful? How well did your group collaborate?

MORE ...

4.1.3. Overcoming Problems

How did you handle any problems which arose?

MORE ...

4.1.4. Sticking To Schedule

How successful were the timings in your original plan?

MORE ...

4.2. Implementation

4.2.1. Project Diary (Gayathri)

What was your implementation schedule? How did the implementation schedule differ from the original plan?

The implementation schedule taken from the "Aperture Project Diary" can be viewed below in 3 tables. One for stage1, stage2 and stage3 respectively.

Aperture — Project Diary

Stage : 1 — **Duration :** 27-Sep-20 **to** 26-Nov-20

Scrum #	Task #	To Do	Task Start Date	Task End Date	Completion Status	Task Category	Scrum Notes	Scrum Start Date	Scrum End Date	Success Measure
N/A	1	Communication Setup	27-Sep-20	27-Sep-20	✔	Team Building	# Getting Aquainted # Discussed development plan # Discussed possible technology # Flutter? / Dart? / NodeJS? / Django?/ React? Etc # Leader = HASAN KAPADIA	27-Sep-20	4-Oct-20	★★★
	2	1st Group Meeting	30-Sep-20	30-Sep-20	✔					
	3	Group Leader Election	1-Oct-20	1-Oct-20	✔					
	4	SLDC Model Discussion	2-Oct-20	3-Oct-20	✔					
1	1	Team Discussions	6-Oct-20	7-Oct-20	✔	Team Building	# Fix meeting dates and times # More discussion about what technology may be used	5-Oct-20	11-Oct-20	★★
	2	Reading & Understanding Spec	10-Oct-20	11-Oct-20	✔	Requirements Engineering				
	3	Designing FRs & NFRs	11-Oct-20	11-Oct-20	✘					
2	1	Designing FRs & NFRs	12-Oct-20	15-Oct-20	✔	Requirements Engineering	# Determinig team roles # FRs & NFRs # Designs and Logo discussions	12-Oct-20	18-Oct-20	★★★
	2	Group Discussion Regarding URs	16-Oct-20	17-Oct-20	✔					
	3	Initial Low Fidelity Prototype Design	15-Oct-20	17-Oct-20	✔	Prototype Development				
3	1	Compile All URs from each member	20-Oct-20	22-Oct-20	✔	Requirements Engineering	# FRs & NFRs # Use Cases # Risk Analysis # Division of work for report	19-Oct-20	25-Oct-20	★★★
	2	Combine URs & Sub-Urs	23-Oct-20	24-Oct-20	✔					
	3	Determine Use Cases	23-Oct-20	25-Oct-20	✔					
4	1	Refine FRs & NFRs	26-Oct-20	1-Nov-20	✔	Requirements Engineering	# Rough version of the final report # Designed Prototype # FRs & NFRs	26-Oct-20	1-Nov-21	★★★
	2	Created Prototype	29-Oct-20	1-Nov-20	✔	Prototype Development				
5	1	Prototype to Upload Photos	2-Nov-20	4-Nov-20	✔	Prototype Development	# Discussed possible data storage options # Discussed possible website hosting options # Divide app into subsystems # Use Cases # Mock Up	2-Nov-20	8-Nov-20	★★★
	2	Prototype for Usability Tests	5-Nov-20	8-Nov-20	✔					
	3	Refine Use Cases	6-Nov-20	8-Nov-20	✔	Requirements Engineering				
6	1	Create Questionnairs & Surveys	9-Nov-20	12-Nov-20	✘	Usability Tests & Mock Ups	# Compiling every member's work. # Leader Change, new leader = MUHAMMAD ASSAD KHAN # Usability Studies development # Class Diagram	9-Nov-20	15-Nov-20	★★
	2	Conduct Usability Tests with GDPR	13-Nov-20	15-Nov-20	✘					
	3	Refine Use Cases	9-Nov-20	11-Nov-20	✔	UML Diagrams				
	4	Compine & Assess Work	11-Nov-20	12-Nov-20	✔					
	5	Create Class diagrams	12-Nov-20	15-Nov-20	✔					
7	1	Create Questionnairs & Surveys	16-Nov-20	17-Nov-20	✘	Usability Tests & Mock Ups	# Design usability Tests # Start usability report # Project costing	16-Nov-20	22-Nov-20	★
	2	Conduct Usability Tests with GDPR	17-Nov-20	19-Nov-20	✘					
	3	Tabulate Test Results	20-Nov-20	22-Nov-20	✘					
	4	Refine Use Cases	16-Nov-20	19-Nov-20	✔	UML Diagrams				
	5	Create State Machine, Sequence Diagrams, etc	15-Nov-20	22-Nov-20	✔					
8	1	Create Questionnairs & Surveys	23-Nov-20	23-Nov-20	✔	Usability Tests & Mock Ups	# Questionnaires # Company name # Usability testing # Refine Report	23-Nov-20	25-Nov-20	★★★
	2	Conduct Usability Tests with GDPR	24-Nov-20	25-Nov-20	✔					
	3	Tabulate Test Results	24-Nov-20	25-Nov-20	✔					
	4	Compile, Review & refine UML diagrams	23-Nov-20	25-Nov-20	✔	UML Diagrams				
N/A	N/A	Submission	26-Nov-20	26-Nov-20	✔	N/A	N/A	26-Nov-20	26-Nov-20	★★★

Fig1. Project Diary - Stage 1

Aperture

Project Diary

Stage : 2 **Duration :** 17-Dec-20 **to** 04-Feb-21

Scrum #	Task #	To Do	Task Start Date	Task End Date	Completion Status	Task Category	Scrum Notes	Scrum Start Date	Scrum End Date	Success Measure
-	1	Group Meeting for Stage 2 Discussion	17-Dec-20	17-Dec-20	✔	Stage Initialization	# Thinking about stage 2 # Rough website plan = Home page, About us page, Contact us page, Projects page	17-Dec-20	18-Dec-20	★★★
	2	Task/Role Allocation	18-Dec-20	18-Dec-20	✔					
1	1	Website Design Discussion	19-Dec-20	19-Dec-20	✔	Company Website	# What tech to use for website? # Discussed website look and feel # Discussed Legal requirements # Discussed Terms & conditions # Discussed Security policy # Discussed Privacy policy # Discussed Cookies # Discussed w3c rules and GDPR # Decide and implement the website theme # Website development # Testing # Start stage 2 report # Everyone start learning react and firebase	19-Dec-20	25-Dec-20	★★★
	2	Website code Implementation	19-Dec-20	25-Dec-20	✔					
	3	Login/Signup Form Implementation	23-Dec-20	25-Dec-20	✔	User Account System				
	4	Account Database Implementatoin	23-Dec-20	25-Dec-20	✔					
2	1	Login/Signup Form Implementation	26-Dec-20	27-Dec-20	✔	User Account System	# Continue Development	26-Dec-20	1-Jan-21	★★★
	2	Account Database Implementatoin	26-Dec-20	27-Dec-20	✔					
	3	Login/Signup Form Testing	28-Dec-20	29-Dec-20	✔					
	4	Account Database Testing	28-Dec-20	29-Dec-20	✔					
	5	Login/Signup Form Documentation	30-Dec-20	30-Dec-20	✔					
	6	Account Database Documentation	30-Dec-20	30-Dec-20	✔					
3	1	Homepage Implementation	3-Jan-21	5-Jan-21	✔	User Interaction System	# Created React App boilerplate # 3 systems identified: Login and Account, Content Creation, Chat System # Started App implementation. # basic image editting # accessing camera part # login # overlays # map view # Sharing a post # Uploading photo to a post from device storage or accessing the device camera and taking real time photos # Delete a post # portfolio # Start stage 2 report # explore gdpr regulations # explore react routing # signup # user profile # add and delete collections/posts	2-Jan-21	8-Jan-21	★★
	2	User content Database Implementation	5-Jan-21	6-Jan-21	✔					
	3	User Portfolio, Channels & Map View	5-Jan-21	8-Jan-21	✘					
	4	Coding Photo filters/effects	7-Jan-21	8-Jan-21	✔					
4	1	Coding Photo filters/effects	9-Jan-21	9-Jan-21	✔	User Interaction System	# Complete pending: portfolio, channels, GPS # continue edit photo # login + sign up # multiple image posts # continue stage 2 report # validation # firestore & google auth	9-Jan-21	15-Jan-21	★
	2	Implementation of comments/liking/rating	10-Jan-21	12-Jan-21	✘					
	4	User Portfolio, Channels & Map View	13-Jan-21	15-Jan-21	✘					
	5	Testing	15-Jan-21	15-Jan-21	✔					
5	1	Implementation of comments/liking/rating	16-Jan-21	17-Jan-21	✘	User Interaction System	# newsfeed # human detection # Channel post # continue report # forgot password # testing and fixing # chat system # rating	16-Jan-21	22-Jan-21	★
	2	Chat system coding	16-Jan-21	21-Jan-21	✘					
	3	User Portfolio, Channels & Map View	17-Jan-21	18-Jan-21	✘					
	4	Testing	16-Jan-21	16-Jan-21	✔					
	5	Documentation	17-Jan-21	17-Jan-21	✔	Content Creation System				
	6	Coding Collections	18-Jan-21	21-Jan-21	✔					
	7	Coding Channels	22-Jan-21	22-Jan-21	✔					
6	1	Coding Channels	23-Jan-21	23-Jan-21	✔	Content Creation System	# Complete pending portfolios # Complete pending Gps # Complete pending ratings # Fix CSS # Complete pending channels channels now # follow and unfollow users # subscribe to channels # refine user upload images # group chat # friends	23-Jan-21	29-Jan-21	★★
	2	Uploading Photos and Modify Photos	22-Jan-21	23-Jan-21	✔					
	3	Implementation of comments/liking/rating	23-Jan-21	24-Jan-21	✔					
	4	Channels & Map View	24-Jan-21	24-Jan-21	✔					
	5	User Porfolio	25-Jan-21	25-Jan-21	✘					
	6	Testing	24-Jan-21	25-Jan-21	✔					
	7	Documentation	26-Jan-21	27-Jan-21	✔					
	8	Overall app review + fixes	28-Jan-21	29-Jan-21	✔	Final Stage				
7	1	Overall app review + fixes	30-Jan-21	1-Feb-21	✔	Final Stage	# user consent form # feedback forum # gaming forum # continue pending chat system # comments # stage 2 report # stage 2 final testing and fixing	30-Jan-21	2-Feb-21	★★
	2	Preparation for demonstration	2-Feb-21	3-Feb-21	✔					
	3	Chat system coding	30-Jan-21	31-Jan-21	✔	User Interaction System				
	4	Implement forums	31-Jan-21	3-Feb-21	✘					
	5	Finish Portfolio	1-Feb-21	3-Feb-21	✘					
N/A	N/A	Demonstration	2-Feb-21	2-Feb-21	✔	N/A	N/A	2-Feb-21	2-Feb-21	★★★
8	1	Report Final Touches	3-Feb-21	3-Feb-21	✔	Final Stage	# stage 2 report refinement	3-Feb-21	3-Feb-21	★★★
N/A	N/A	Stage 2 Submission	4-Feb-21	4-Feb-21	✔	N/A	N/A	4-Feb-21	4-Feb-21	★★★

Fig2. Project Diary - Stage 2

Aperture — Project Diary

Stage : 3 — **Duration :** 05-Feb-21 **to** 01-Mar-21

Scrum #	Task #	To Do	Task Start Date	Task End Date	Completion Status	Task Category	Scrum Notes	Scrum Start Date	Scrum End Date	Success Measure
-	1	Group meeting for Stage 3 Discussion	5-Feb-21	6-Feb-21	✔	Stage Initialization	# aperture installable as a native app through all major browsers.	5-Feb-21	6-Feb-21	★★★
1	1	Testing	7-Feb-21	10-Feb-21	✔	Stage Initialization	# Testing & fixing	7-Feb-21	13-Feb-21	★★★
	2	Documentation	11-Feb-21	13-Feb-21	✔					
2	1	Testing	14-Feb-21	19-Feb-21	✔	Stage Initialization	# Testing & fixing	14-Feb-21	20-Feb-21	★★★
	2	Documentation	20-Feb-21	21-Feb-21	✔					
3	1	Notification System Implementation	21-Feb-21	27-Feb-21	✔	Notification System	# Complete the feedback forum # Using device camera for mobile device # notification system # Security rules # Group Chat # challenge creation # challenges page # start the stage 3 report # leader board section # Edit own account details # MUHAMMAD ASSAD KHAN = leader + in charge of stage 3 report undergoes surgery :(	21-Feb-21	27-Feb-21	★★★
	2	Challenges Implementation	21-Feb-21	27-Feb-21	✔	User Interaction System				
	3	Implement Group Chat	21-Feb-21	27-Feb-21	✔					
	4	Leaderboard Implementation	21-Feb-21	27-Feb-21	✔	Gaming System				
	5	Implement Firebase Security Rules	21-Feb-21	27-Feb-21	✔	Backend				
4	1	Notification System Implementation	28-Feb-21	4-Mar-21	✔	Notification System	# continue challenges # continue notifications # continue leaderboards # points # forums # continue firebase rules	28-Feb-21	6-Mar-21	★★
	2	Challenges Implementation	28-Feb-21	6-Mar-21	✔	User Interaction System				
	3	Forums Implementation	1-Mar-21	3-Mar-21	✔					
	4	Leaderboard Implementation	28-Feb-21	6-Mar-21	✘	Gaming System				
	5	Implement Points Logic	2-Mar-21	5-Mar-21	✔					
	6	Stage 3 Report	21-Feb-21	27-Feb-21	✘	Documentation				
	7	Implement Firebase Security Rules	28-Feb-21	6-Mar-21	✔	Backend				
5	1	Leaderboard Implementation	7-Mar-21	11-Mar-21	✔	Gaming System	# continue pending leaderboards # continue firebase rules # seasons logic # leagues & badges based on profile points # Due to previous leader still recoving, new acting leader/project manager = BABER JAN.	7-Mar-21	13-Mar-21	★★
	2	Implement rewards	8-Mar-21	13-Mar-21	✔					
	3	Stage 3 Report	7-Mar-21	13-Mar-21	✘	Documentation				
6	1	Testing + Fixing	14-Mar-21	17-Mar-21	✔	Testing	# Testing & fixing # continue leaderboards # continue firebase rules # complete pending season logic # continue challenges # Announce the fastest growing channel of the month FR. # Fix CSS # continue ranking system # Add location to a challenge # make a report about what is accomplished and what is left # Check for all the frs and use case # tags in a photos # replace google maps # MUHAMMAD ASSAD KHAN still unable to contribute much since still recovering. So report handed over to = GAYATHRI GIRISH NAIR.	14-Mar-21	20-Mar-21	★★
	2	Implement Firebase Security Rules	17-Mar-21	20-Mar-21	✔	Backend				
	3	Leaderboard Implementation	14-Mar-21	16-Mar-21	✔	Gaming System				
	4	Implement rewards	17-Mar-21	20-Mar-21	✘					
	5	Implement Points Logic	17-Mar-21	20-Mar-21	✔					
	6	Implement Tagging in photos	14-Mar-21	20-Mar-21	✔	User Interaction System				
	7	Stage 3 Report	14-Mar-21	20-Mar-21	✘	Documentation				
7	1	Stage 3 Report	21-Mar-21	25-Mar-21	✘	Documentation	# continue refining challenges # implement user reports # search for challenges # delete collection, portfolio post & comments # complete pending seasons logic ** NOW **	21-Mar-21	25-Mar-21	★
	2	Implement rewards	21-Mar-21	24-Mar-21	✘	Gaming System				
	3	Implement rewards	21-Mar-21	24-Mar-21	✘					
8	1	Preparation for demonstration					** FUTURE **	26-Mar-21	27-Mar-21	★
N/A	N/A	Demonstration	28-Mar-21	28-Mar-21	✔	N/A		28-Mar-21	28-Mar-21	★★★
9	1	Final Report Touches					** FUTURE **	29-Mar-21	31-Mar-21	
N/A	N/A	Stage 3 Submission	1-Apr-21	1-Apr-21	✔	N/A	N/A	1-Apr-21	1-Apr-21	★★★

Fig3. Project Diary - Stage 3

The above implementation schedule remained close to initial plan from stages 1 and 2 with a little deviation from original plan. The implemented schedule for stage 3, however was quite different from the initial plan due to the team's need to commit to other subjects and related course works with all team members being full time students. Unforeseen health issues faced by team members particularly our leader proved to be a setback. Hence greater collaboration and effort was required toward the end of stage 3 which was key in overcoming ordeals and submitting a finished product and necessary documentation.

EDIT IF NEEDED ...

4.2.2. Path to Success (Gayathri)

provide examples

Was your implementation approach successful (scrum, other, etc)? Why or why not? Use specific examples from your experiences to support your discussion.

Positive Experiences

- Initially the team was very lost and awestruck as the massive task that lay ahead. This is when the decision to sit down and **identify systems** that would make up our application proved helpful. Initially 11 systems where identified which was then narrowed down to 6 ...

    1. User Account System
    2. Content Creation System
    3. User Interaction System
    4. Game Mechanics System
    5. Notification System
    6. Application Improvement System

    This breakdown of the application allowed the team to develop a wholesome view of what the application would look like and what it would be capable of. We then went on tackling one system at a time, always beginning by identifying main tasks and implementing them.
- The **flexibility** that **scrum** provides allowed us to implement parts of the app that felt manageable at a given moment knowing that once the team had amassed further knowledge regarding a topic, those very basic versions first implemented in a previous scrum may be revisited, tweaked and refined in a later scrum.
- Having a **scrum master** that regularly discussed with the group and allocated tasks on a weekly, at times, even daily basis allowed for the team to always have **an idea about the next most important task.**
- **Daily scrum sessions/reports** was a reminder of just how much had been and were yet to be achieved every week.
- Any scrum tasks not achieved this week would be reallocated next week in addition to other tasks. This succeeded at keeping the team on toes and though at variable rates, **weekly scrums ensured that weekly progress was made**.
- Every scrum would culminate in all members testing out the functions implemented thus far and then suggesting fixes that would be implemented in the next scrum. These **implement > test > fix > implement next** iterations ensured that the team **produced working parts** of the application almost **every week** and it would be **unlikely** that these parts **would need to be changed later** on. This approach also meant that we would have a working feature to show our line manager at almost every meeting.
- Opting **React JS** enabled the team to create **components** that could be **reused** and take advantage of **vast libraries and frameworks** that React supports like Material UI, React Bootstrap etc. Due to React being a popular choice amongst we application developers, **finding** online **tutorials** and **reading material** on it **was not difficult**.

Negative Experiences

- Opting **ReactJS** meant that most of the team had to take the **time to learn** its key features. This resulted in some time in our development journey (Scrums 1 & 2 of stage 2) getting dedicated to learning it. Also, lack of sufficient knowledge of how to achieve a particular task had resulted in slower progress than ideal at several points in Stages 2 and 3.
- In instances where the team was faced with may deadlines corresponding to other course works / tests and during the time of the F29PD debate, the pressure to produce **daily scrum reports** was **at times overwhelming**.
- The team was always very active and driven to produce a great product. Every member had **lots of ideas/opinions** to make the application better. Whilst this meant no shortage of options, it also meant that it took **longer to reach a consensus** and would also lead to **disagreements** that had to be resolved from time to time. This scenario was especially prevalent during the **initial stages** of development when the team was just coming together.

By Stage 3, however, the team was **united** and had understood strengths and the value of each member.

Overall, it is safe to say that our approach was successful in helping keep the team close knit and productive. When problems arose, the team was able to rise to the challenge and brave though it. The milestones we set for ourselves and achieved via scrums, gave us a sense of accomplishment and was a source of motivation in our development journey.

MORE ...

4.2.3. Tools Used (Hasan)

Which languages, tools, and techniques did you use? How suitable were they?

MORE ...

4.3. Product (Tasneem)

4.3.1. Functionality Achieved

Report achieved functionality. Provide outline summary on functions and then give details. How many of your requirements did you meet? (Example = A table showing to what extent each of the numbered functional requirements have been completed.)

MORE ...

4.3.2. What's Special?

What is particularly special about your product? Have you included extra features? How robust is your final system?

MORE ...

4.3.3. Bugs/Constraints

Are there known bugs or constraints?

MORE ...

4.3.4. Usability Results

How usable did your subjects find the final system? Include a brief summary of results.

MORE ...

Appendix (Yoshi)

Appendix of Supporting Documentation. Any other supporting documentation that might be relevant (Examples = project diaries/report, original implementation plan, marketing material, etc).

MORE ...