WEB & MOBILE APP DEVELOPMENT

BY

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This Report Presented in Partial Fulfillment of the Requirements for the Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project/internship titled "**Web & Mobile App Development**", submitted by Md. Al Amin, ID No: 162-15-7991 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on May 4,2019.

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DECLARATION

I hereby declare that, this Real-life project done by us under the supervision of **Md. Abbas Ali Khan, Lecturer, Department of CSE** Daffodil International University. I'm also allocate that this project has been done by me by using a recourse of my organization. Any part of this project not submitted elsewhere for award of any degree or diploma.

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First of all, I express my heartiest thanks and appreciation to almighty Allah for His his grace in accomplishing my internship report timely his grace in accomplishing my internship report timely.

I am really to present my profound and grateful thanks to **Md. Abbas Ali Khan, Lecturer, Department of Computer Science and Engineering,** Daffodil International University, Dhaka. Ability & interest of my supervisor in this field of "Product Design Engineer (Web & Mobile)" help me to continue this internship. His moderation, scholastic guidance, valuable instructions. it shouldn't possible without his contribution.

I really like to show my heartiest gratitude to **Dr. Syed Akhter Hossain, Professor and Head, Department of CSE**, for his great kind make it easier to complete my internship also my other faculty members, staff of CSE department of Daffodil International University.

Also thankful to my organization director Shamim Hasnath Ridmik Labs Limited.

Really like to show deep respect to all my course mate/friends in Daffodil International University, those how inspiring to complete this project.

Lastly, I would like to thank for the constant support and patience of my parents.

ABSTRACT

This report is for achievement at Daffodil International University in CSE, expected to increase skills and experience during my studies. I have that confidence to doing some existing project but I choose internship because it helps me to do some real-life project. For this I had internship over “Product Design Engineer (Web & Mobile)” at a software company named Ridmik Labs Limited. It is a startup company working with local product to make our life style better, we always care about user requirement all of our solution based on local problem. basically, tried to prompt that how I’m doing those things and how much dedicated I was there in that time. Moreover, I tried to express whether my internship was a successful or not.

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CHAPTER 1

Introduction

1.1 Introduction

The report has several impotence. It makes a huge opportunity for me to work in a real-world organizational. This internship now transforms into my future career. Now I become a part of this organization as a full-time employee, doing various activities such as product analysis, wireframe design, creating artboard, prototype and implementation. now I become passionate what I'm doing right now

1.2 Motivation

Ridmik Labs Limited is committed to provide local problem solution to our user, promoting professionals and excellent leadership catering to the technological evolution Across the globe and have signed as investment partners for numerous companies. Ridmik Labs has huge fan following because of Bangla keyboard. I believe our vision will take us beyond success.

1.3 Internship

The main goal of this internship, to make me a team player who lead the developer and other engineer by improving skills, the internship only the option to prove myself what I'm capable to do. Now a days I'm learning several Design languages, User research, User interface design for both client and users. My organization give me that kind support effort no one can expect in another field.

1.4 About the Company

Ridmik Labs Limited in 2018 Silicon Valley funded company and already having a successful product called ridmik keyboard in Google play with about 2 crore installs. Company Focused on local apps such as ridmik keyboard which downloaded by huge amount of user total download about 2.2 crore. Funded by many industry leaders.

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1.5 Report Layout

Layout of report is classified by

Chapter 1: Internship Introduction, Motivation, Internship Objective, and About the Company.

Chapter 2: Introduction, Product market and user analysis, Target Audience, Generate requirement Analysis, Organizational Configuration.

Chapter 3: Daily Task and Activity, Design guideline for developer, Icon Font set design Wire frame Create, Showcase or prototype Design.

Chapter 4: Competencies Earned, Smart Plan, Reflection, problem and solution and also learning outcome.

5: Conclusion and future scopes of the internship

CHAPTER 2

Organization

2.1 Introduction

In the last couple of years, I doing so many per time and full-time job alone side of my education, working with reputed company I feel that future of my career going backward. So, I decided to create my stable identity in problem finding and solution making. Here has a huge scope to work with local solution of our local problem. Most of the top leading organization such as pathao, shohoz, chaldal they grew by solving local problem. I think it's a great step for me to get next level of my career with product design engineer.

2.3 Product and Current Market Situation

Bangladesh become growing country in IT sector, lots of investor are moving this sector Now our market also stable because of easy internet services. It has a chance to take risk develop new ideas.

2.3 Target Audience

Our target user is who love to read newspaper, book, knowledge sicker about new era or technology only our first priority. until we don't have any subscription-based model for user because it's not standard in our country. So, there has a chance to engage lots of end users.

2.4 SWOT Analysis

Table 2.4.1: SWOT analysis

Strengths	Weaknesses	Opportunities	Threats
suited locations choices	price or cost	market of development	always high level to all time
overall brand Equity	big staff costs	expand product offering	high level moving to online conveyance
individually branded products	practical ability	exclusive product contribution	security
capability	permit	co-branding locations	shoplifting

2.5 Organizational Structure

I really like my organizational stature, it has some basic rule that maintain standard office hour, quality or workplace, meeting room etc. the most important is task allocation & coordination between developers, Business development manager and even director. What way we can easily reach our goal point and its more efficient.

CHAPTER 3

Tasks Projects and Activates

3.1 Daily Task and Activities

My day start with checking email is there any new task available or not. Create a meeting slot with development team today what feature we need to implement. Example News app need a feature called briefing reader which text to speech translate in Bangla languages, here is the challenges how I can implement interface so I stared to form sketches wireframe, create prototype and test before development.

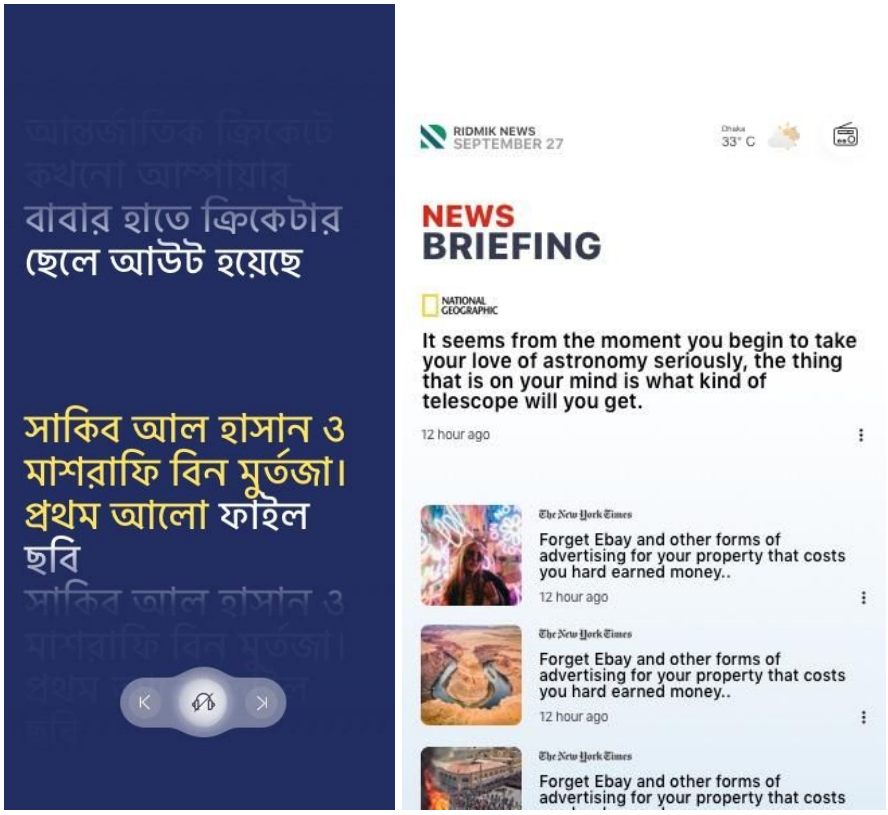

Figure 3.1: Daily Task Example

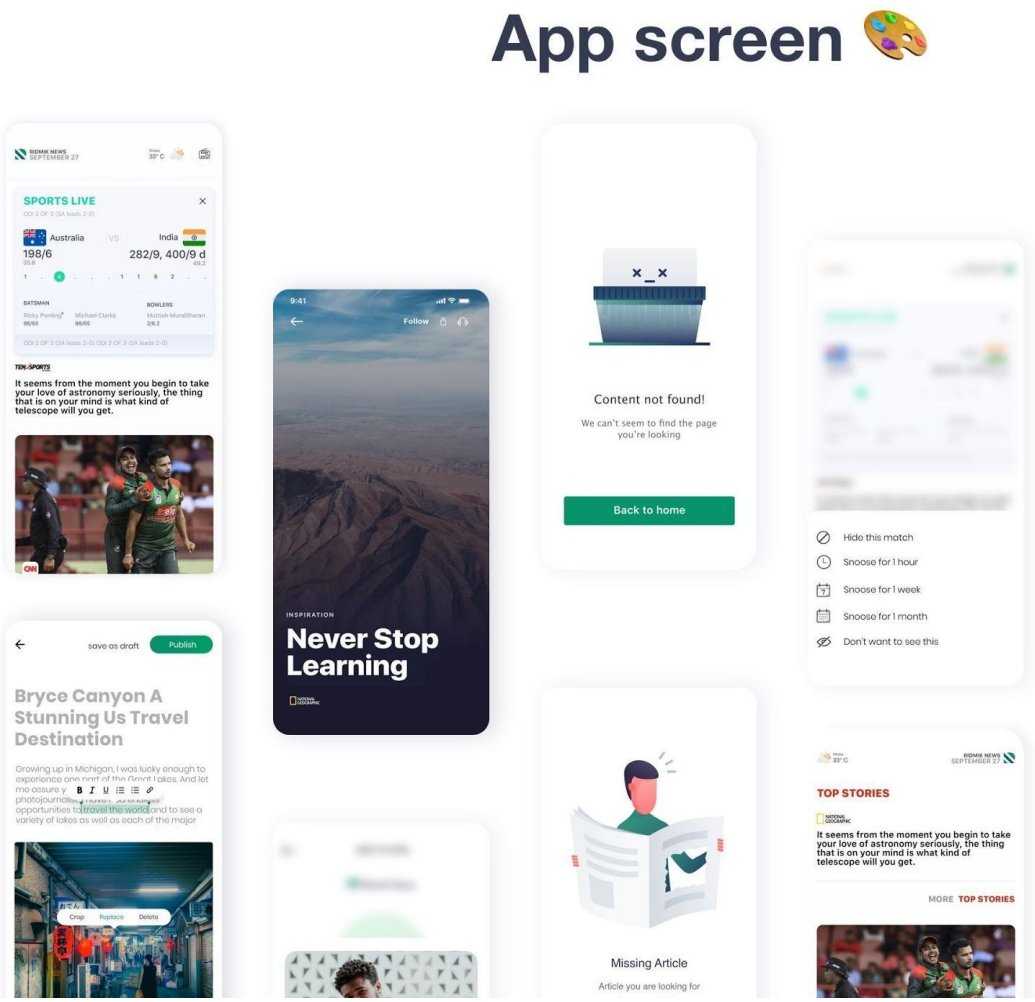

Figure 3.2: App Screen

Here is all the app interaction screen which has a clear vision where every section face by face tested and pass by taking feedback form organization or team member

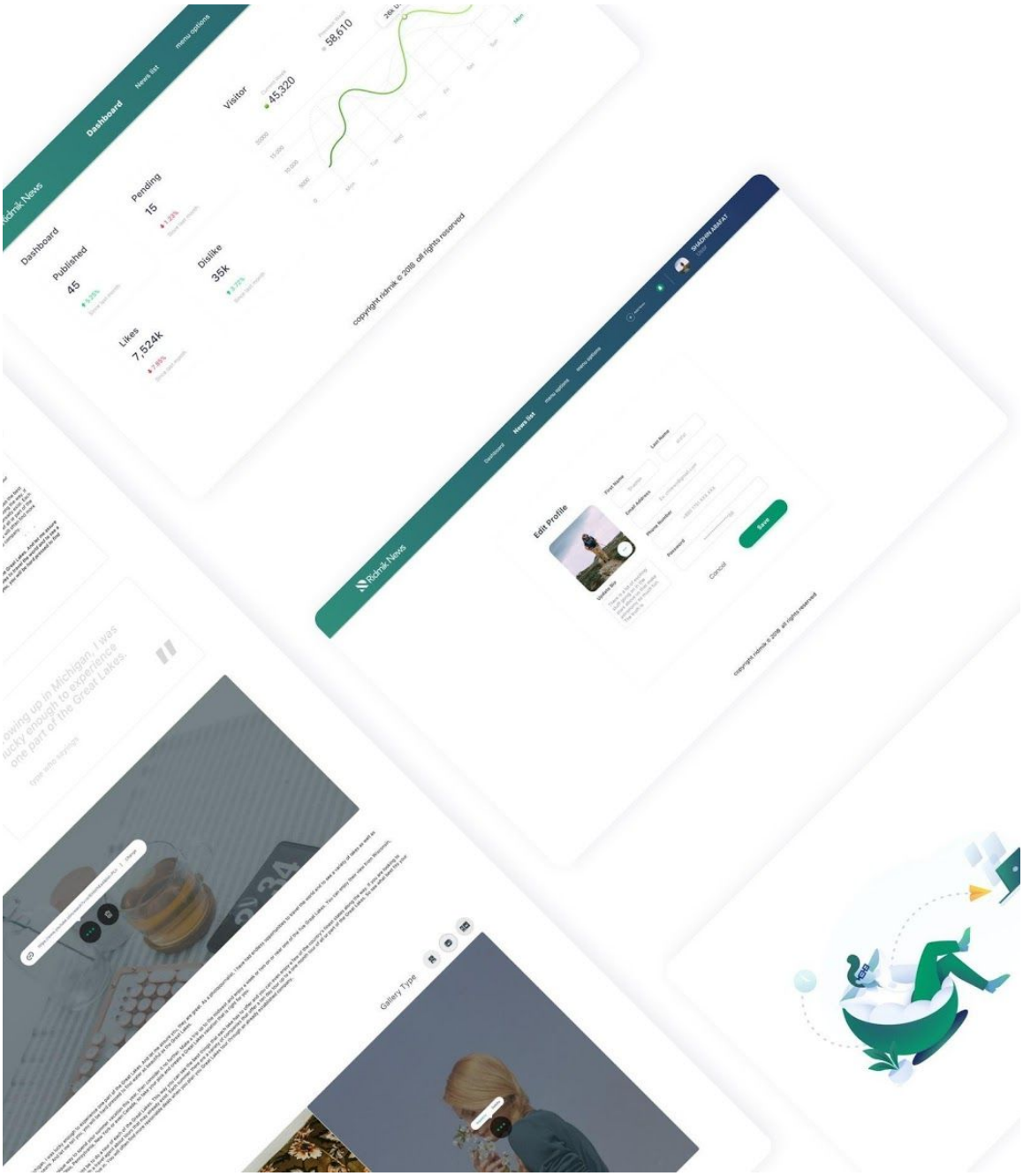

Figure 3.3: Web app screen

Here is our app backend editor panel user can post news form here. also has user admin an admin panel for approval process to make sure the quality and security.

Creating Guideline: to help developer such as Font size, colors Associate with design, Typography selection for heading text, title, regular paragraph etc.

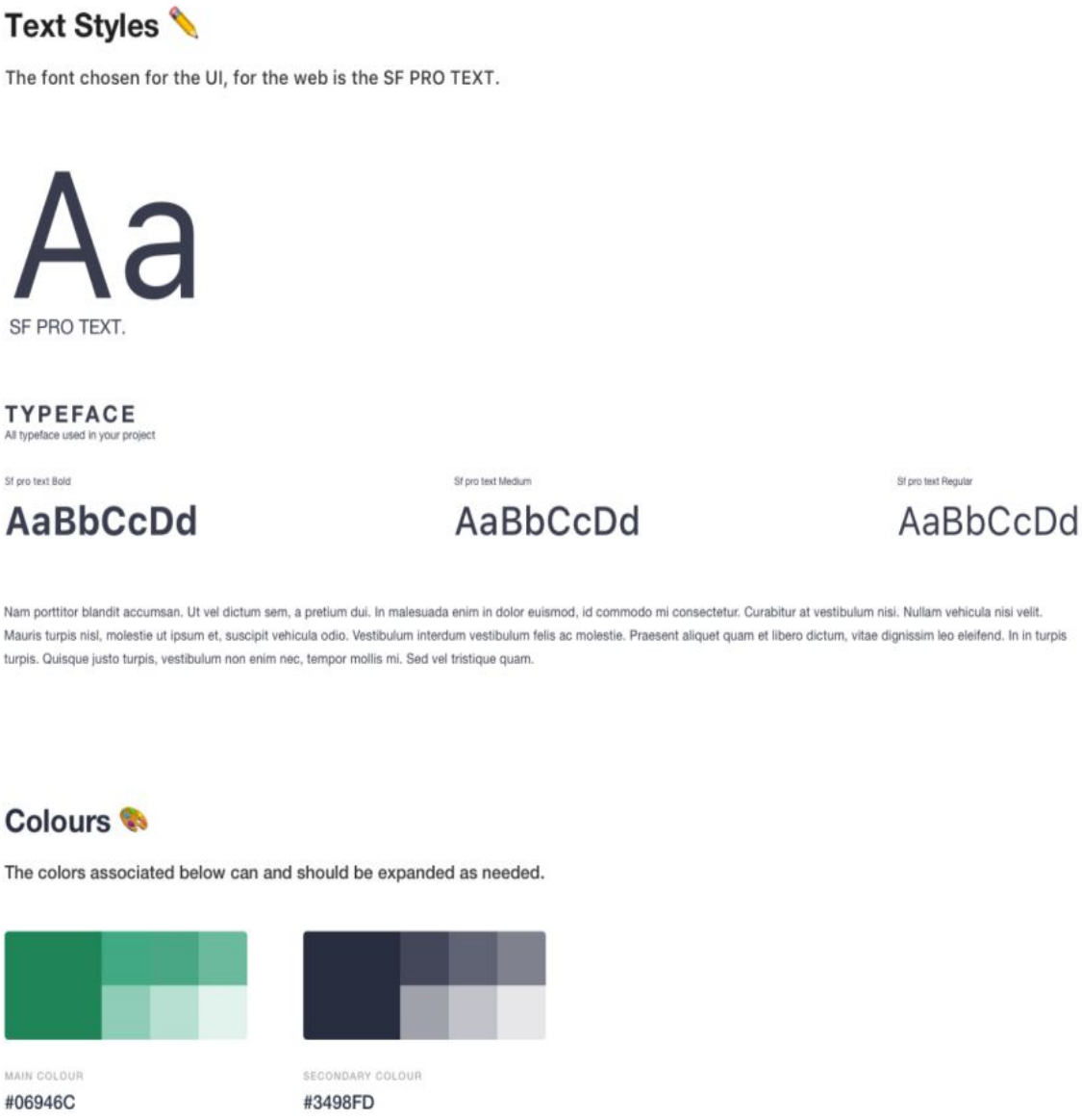

Figure 3.4: Creating Guideline

Icon Font Design: Making Vector graphics icon set and create a package. It's a great solution to for optimized app size because now android or other system can support .SVG icon font alternative of .png image or .bmp.

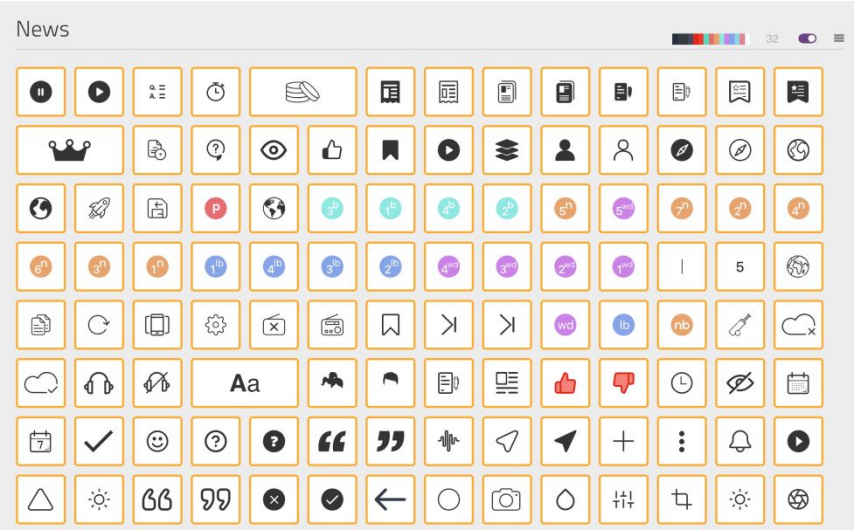

Figure 3.5: Icon Font Design

Web App testing: website device wise responsiveness test, feature & performance.

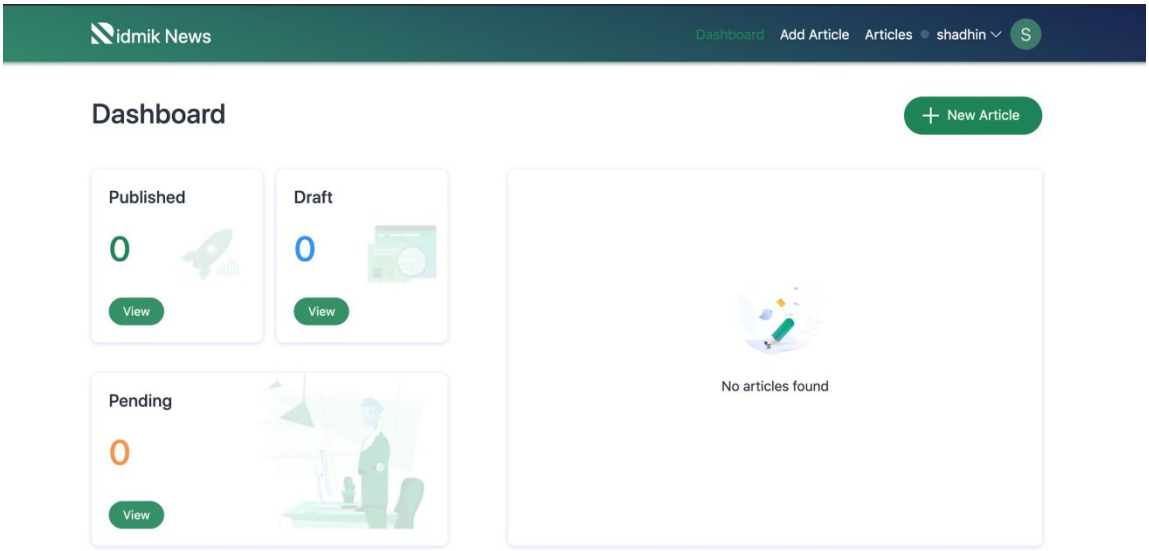

Figure 3.6: Web App testing

mobile App testing: testing features, bug report generates.

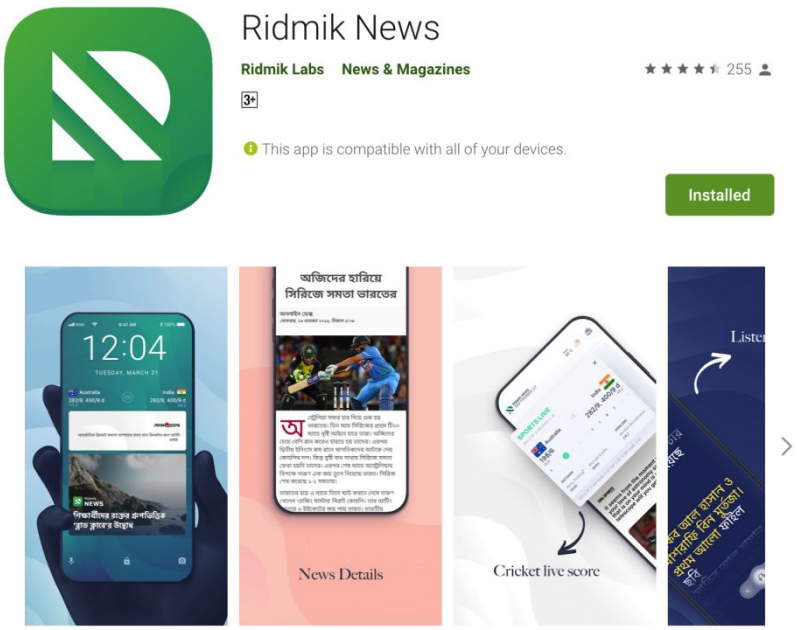

Figure 3.7: Mobile app testing

3.2 Events and activities

• Email checking for new update

• Weekly design reviews

• Feedback and Update design state

• Monthly feedback about current state and previous state

3.3 Projects Task and Activities

Here is my daily task or activity which is key role play of my designation

• Project Analysis

• R&D

• Create wireframe

• UX/UI

• Prototype Testing and feedback

• Implementation

• Quality testing and get reviews

So, I fell that there are some different some local project and international project.

3.4 Challenges

Product design and implements are huge challenge for new startup it has chance to get shutdown. They face every step as a challenge in Among so many problems the most common problems are Design transformations, research and critical thinking. As a

Product Designer, I have to maintain all those challenges to show them a relevant solution.

CHAPTER 4

Competencies and Smart Plan

4.1 Competencies Earned

Our goal to provide purpose full apps or services to end user based on quality so in order to gain higher success, must have to gain competencies. Example user now a days more like new which include video or audio attached, they love to read news form different portal so our idea is to bring all the news portal into one app also capable to used video and audio features. It's an interesting to project done by our organization.

4.2 Smart Plan

- Analysis project requirement
- Interaction design based on current trend
- Create prototype before jump in development
- Design review & feedback
- Product Testing before final release

4.3 Reflection

Whatever, I do in my organization I can use that in my professional portfolio to make a reflection of my work, that another kay of my success. Well arrange portfolio show my skills to globe. Every Product designer maintain that to get job also standard organization requirement, now most of the organization offered to work for because of portfolio, my work reflection. I really appreciate.

CHAPTER 5

Conclusion and Future Scope

5.1 Discussion and Conclusion

Now I'm enough capable to work with any task of design related issues. Ridmik Labs give me that experience to grow my future career. I personally share that working with startup it's a huge challenge every and new comer should face that before he/she get this relevant job. This is the playground where every team member playing with skill and I glad to be a part of that team

5.2 Career Scope

Job sector now become huge for every fresher challenge, organization gave me that opportunity and shared all of the possible resources, that not only help me to grow career but also make my reputation higher, that increased my opportunity to the anywhere.

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Appendix A: Internship Reflection

Basically, Options are available for BCC among them one is internship and another is work on an own project. I recommend myself internship it help to get my dream job. Bangladesh now become more Development focus country, so our TI and development sector/Organization now try to make insure the quality of the product. There has huge opportunity. I had to go get myself prepared for the problem-solving expert, creating portfolio about my work that will add great benefit to my career. Product Design Engineering become a major part of software development industry. I personally feel honor to working with my organization team member and lucky to gain that opportunity.

Appendix B: Company Detail

Ridmik Labs Limited Aug 2018 Silicon Valley funded company and already having a successful product called ridmik keyboard in Google play with about 2 crore installs. Company Focused on local apps and now working with news app, and book store app which beta version already released.

Our efficient team member had huge challenging work to face regular based such as Research and Development focus, optimization quality testing. First priority of our organization is user satisfaction and we love to working on it by our side.

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