Module	Portfolio	Assessment Type
Collaborative Development (5CS024)	1	Individual Report

Appointment Management System-(Frontend-Developer)

Student Id : 2228160

Student Name : Ritesh Jung Lama

Section : L5CG4

Group : L5CG4 Group 4

Module Leader : Mr. Biraj Dulal

Lecturer : Mr. Biraj Dulal

Submitted on : 02/04/2023

Word Count : 1690

Acknowledgements

I have been able to successfully develop the Appointment Management System, thanks to the constant guidance and support of our instructor, Mr. Aadhrsha Khadka. Their valuable inputs and direction have been crucial in making this project a reality, and I express my heartfelt gratitude to them.

While developing this system, I have learned numerous concepts, such as effective time management, communication, and coordination with team members. Additionally, I have gained knowledge on the importance of user experience and the significance of creating a user-friendly interface that is easy to navigate and understand.

I would also like to thank my team members who have played a crucial role in the success of this project. Their support, trust, and commitment to the project have been essential in making this project a success.

Overall, I am proud of the Appointment Management System we have developed, and I am confident that it will be of great use to its intended users.

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Self-appraisal form

Student number	2228160	Name	Ritesh Jung Lama
Project	Appointment Management System	Date	02/04/2023
Role	Developer	Team	L5CG4 (group 5)
Sprint (1 or 2)	1		

Personal objectives – performance measurement

Objectives	**Evidence provided**	**Evaluation** *Student / tutor*	
Choosing for the relevant technology	When considering technology for frontend development in mobile app development, Flutter is an excellent tool to create high-performing and scalable applications. Its cross-platform capabilities enable developers to create applications for both Android and iOS with ease, as it eliminates the need for coding in different languages. For writing code, I opted to use Visual Studio Code, a user-friendly platform that is also available for free.	9	

<table>
<tr><td colspan="4"><i>Tutor feedback:</i></td></tr>
<tr><td>Implementing functional requirement</td><td>I have written code for every page in out Mobile Application (signup,login,booking appointment, Integrating backed, CRUD Appointment)</td><td>9</td><td></td></tr>
</table>

Collaboration Document

Evidence of good collaboration

As a frontend developer, I feel fortunate to be part of a dedicated team that interacts well and shares ideas seamlessly. Our productive meetings, open communication channels, and willingness to help one another have been instrumental in our collaborative efforts. The positive feedback and encouragement that we offer each other motivate us to do better, and our seamless file sharing processes make working together enjoyable. I am proud to be part of such a supportive and enthusiastic team, and I am confident that we will deliver an exceptional frontend experience for our project.

Continuing Personal Development (CPD)

In my role as a Flutter developer, I engaged in comprehensive research to understand the mobile application development process. I employed Google to search for relevant documentation and watched YouTube videos to enhance my understanding of industry best practices. I also conducted research on managing state in Flutter. In instances where I encountered errors that required resolution, I turned to online resources such as Stack Overflow and utilized AI chat assistance to help troubleshoot and resolve the issues.

Issue tracking

During the frontend development phase, I uploaded my work onto Git-hub for the team to review and test. Through their testing efforts, they were able to identify minor issues, such as the end time for booking appointments being set prior to the start time. I addressed these issues by implementing necessary validations. Additionally, our project manager suggested enhancements, such as implementing a user avatar in the Sign-Up page and displaying it on the profile page. I took on the task and successfully implemented the requested features.

Appendix A

Choosing for the relevant technologies

Include report

When it comes to selecting the right technology for frontend development in mobile app development, Flutter emerges as an excellent tool that empowers developers to create highly scalable, robust, and high-performing applications with ease. The greatest advantage of using Flutter is its ability to facilitate cross-platform development, enabling developers to create applications that run seamlessly on both Android and iOS platforms without the need for writing code in different languages. This not only saves developers time and resources but also ensures that the application is consistent in terms of functionality and user experience across different platforms.

From creating clear user interfaces to enhancing app performance, Flutter, in my experience as a mobile app developer, offers a wide range of capabilities and functionalities that expedite the app development process. The development process is more effective and quicker thanks to its hot reload functionality, which enables developers to see the changes they make to the code immediately.

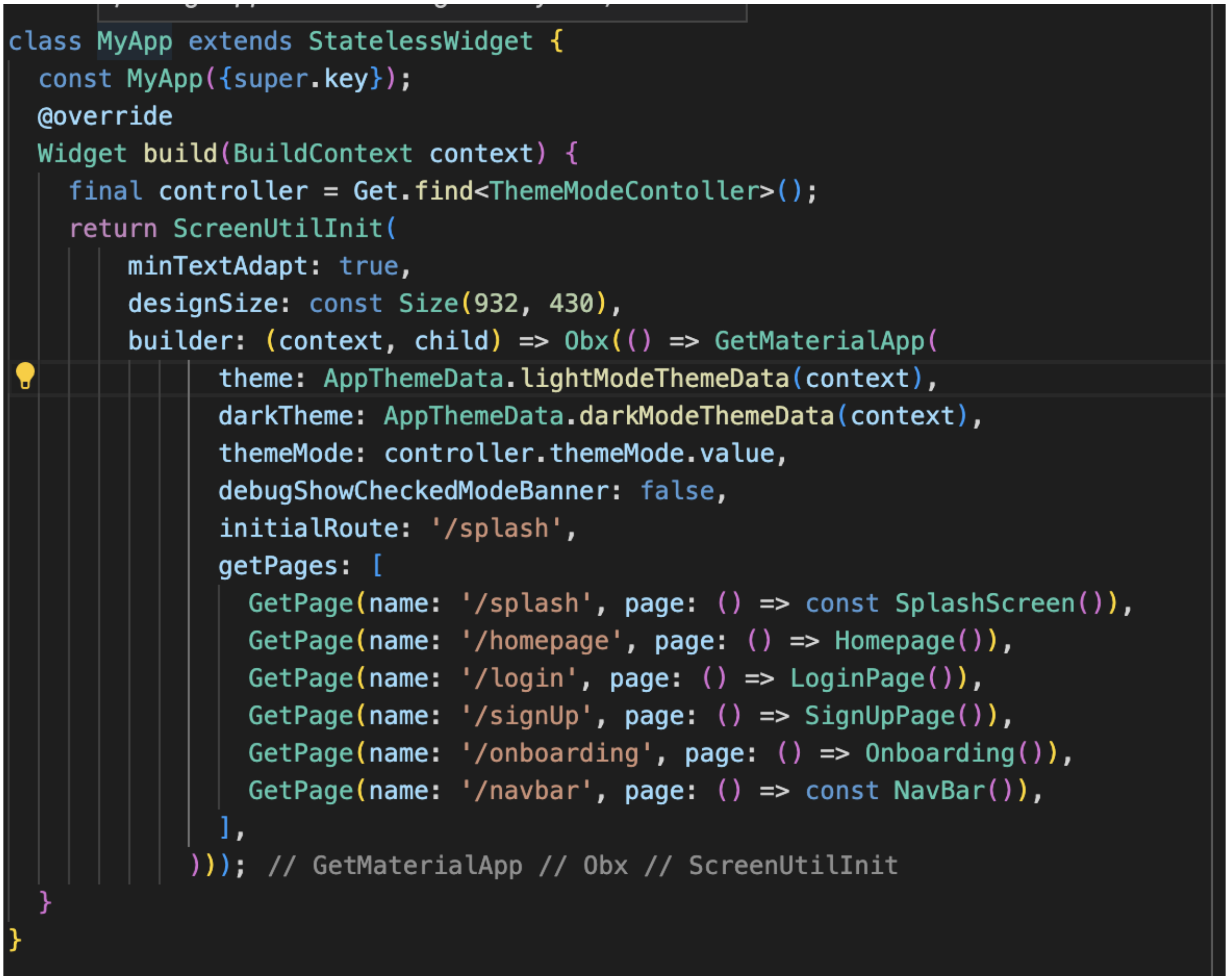
I decided to use Microsoft Studio Code, a robust and user-friendly platform that offers all the required tools and features for developing top-notch applications, to write code in Flutter. Its user-friendly design and sophisticated debugging tools made it simple for me to create and test my app. Additionally, Microsoft Studio Code is free, making it a cost-effective choice for developers trying to create dependable and scalable mobile applications.

Implementing functional requirement

Codes and its explanation

In my Flutter app's frontend development, I employed the MVC model and GetX package for state management. The MVC (Model-View-Controller) pattern is widely used for dividing an application into three interconnected components: the model for data and business logic, the view for the user interface, and the controller for handling data flow and view updates. Similarly, GetX is a well-known Flutter state management package that offers a variety of features such as reactive programming, dependency injection, and route management, making it effective for State management.

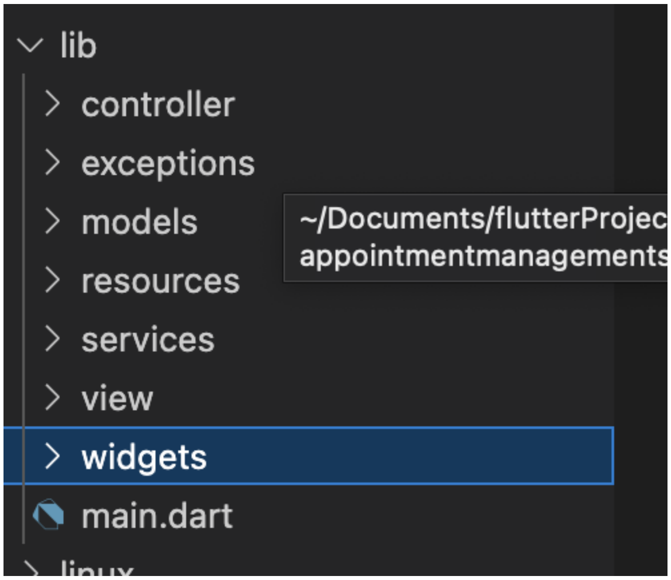
I opted for the GetX package to manage the state in my Flutter application. GetX is a highly popular package that offers a user-friendly and intuitive approach to managing the application's state. Its capabilities for sharing data and updating the user interface seamlessly across different sections of the app make it an excellent choice. Additionally, with features like dependency injection, reactive programming, and route management, the GetX package provides a comprehensive solution for efficient state management in Flutter applications.



```dart
class MyApp extends StatelessWidget {
  const MyApp({super.key});
  @override
  Widget build(BuildContext context) {
    final controller = Get.find<ThemeModeContoller>();
    return ScreenUtilInit(
        minTextAdapt: true,
        designSize: const Size(932, 430),
        builder: (context, child) => Obx(() => GetMaterialApp(
              theme: AppThemeData.lightModeThemeData(context),
              darkTheme: AppThemeData.darkModeThemeData(context),
              themeMode: controller.themeMode.value,
              debugShowCheckedModeBanner: false,
              initialRoute: '/splash',
              getPages: [
                GetPage(name: '/splash', page: () => const SplashScreen()),
                GetPage(name: '/homepage', page: () => Homepage()),
                GetPage(name: '/login', page: () => LoginPage()),
                GetPage(name: '/signUp', page: () => SignUpPage()),
                GetPage(name: '/onboarding', page: () => Onboarding()),
                GetPage(name: '/navbar', page: () => const NavBar()),
              ],
            ))); // GetMaterialApp // Obx // ScreenUtilInit
  }
}
```

Figure 1Main.dart screenshot

The main code of my program is contained within the MyCode class, which constructs the page and initializes the ScreenUtilInit package. This package is crucial for creating a responsive UI in Flutter and allows for dynamic scaling based on the device's screen size. Once the package has been initialized, the code then returns the GetMaterial page, a page widget that provides additional functionality and design elements to the UI. Overall, utilizing the ScreenUtilInit package and the GetMaterial page widget provides a robust and versatile foundation for building high-quality and responsive UIs in Flutter. Then In the bottom of the code the routes is defines and initial routes is defined which is splash Screen.



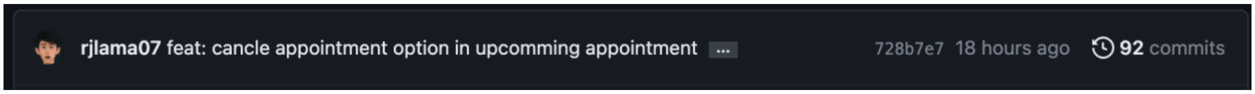
```
lib
  controller
  exceptions
  models
  resources
  services
  view
  widgets
  main.dart
linux
```

~/Documents/flutterProjec
appointmentmanagements

Figure 2 Code folder Structure

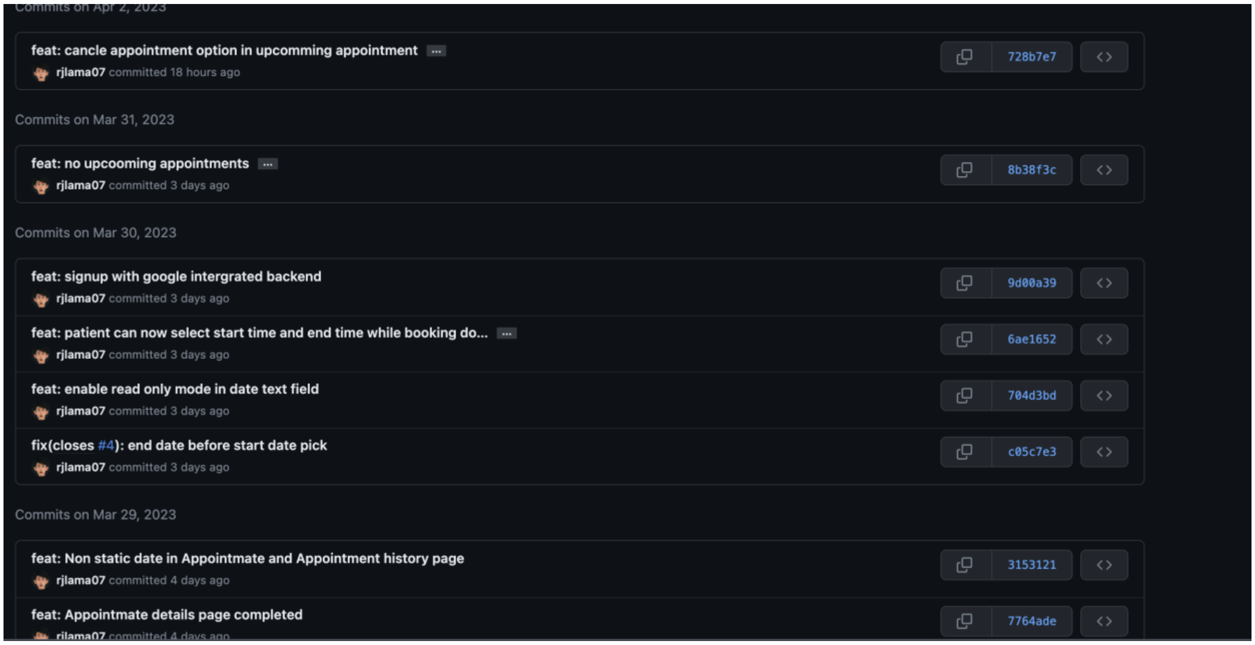
The main code of my program is structured into different folders. The "controller" folder contains the GetX controller, which manages the pages within the code. The "exception" folder contains helper code for Dio Exceptions, which is a popular package used for API handling. The "resources" folder stores the color codes, API endpoints, and base URL. The "view" folder holds all the UI code for the application, while the "services" folder stores the API services code responsible for handling API requests. Finally, the "widget" folder holds reusable widget code that can be used across different parts of the application.

Use of Version control (Screenshots of logs)



rjlama07 feat: cancle appointment option in upcomming appointment ... 728b7e7 18 hours ago 92 commits

Figure 3 Total commit screenshot


Commits on Apr 2, 2023

feat: cancle appointment option in upcomming appointment ···
rjlama07 committed 18 hours ago
728b7e7

Commits on Mar 31, 2023

feat: no upcooming appointments ···
rjlama07 committed 3 days ago
8b38f3c

Commits on Mar 30, 2023

feat: signup with google intergrated backend
rjlama07 committed 3 days ago
9d00a39

feat: patient can now select start time and end time while booking do... ···
rjlama07 committed 3 days ago
6ae1652

feat: enable read only mode in date text field
rjlama07 committed 3 days ago
704d3bd

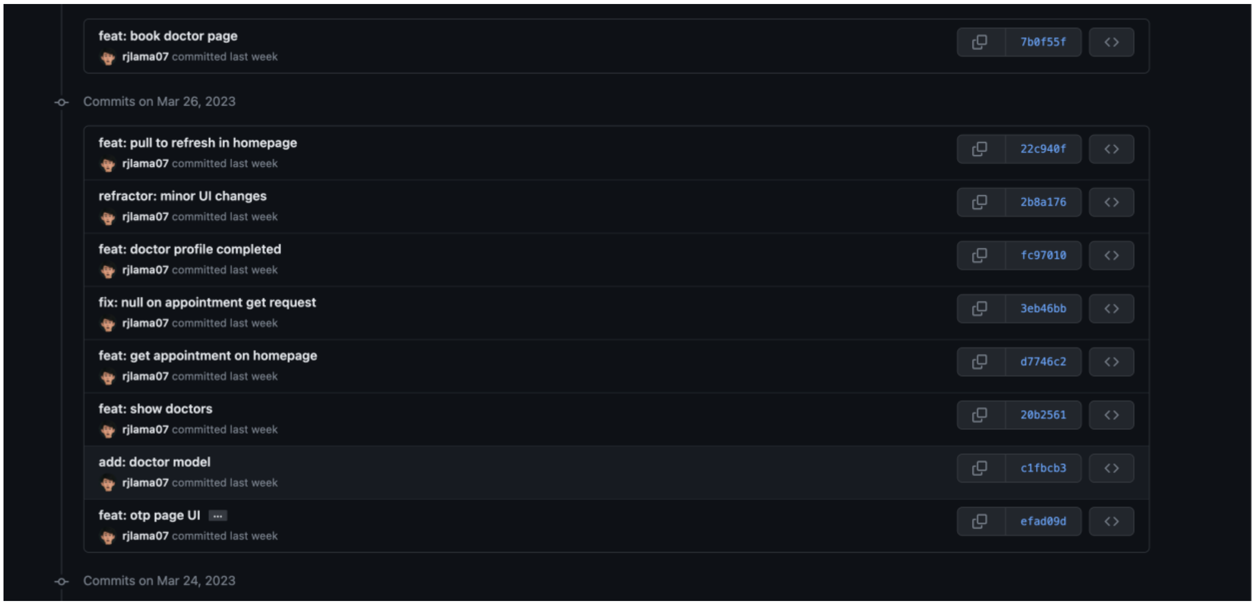
fix(closes #4): end date before start date pick
rjlama07 committed 3 days ago
c05c7e3

Commits on Mar 29, 2023

feat: Non static date in Appointmate and Appointment history page
rjlama07 committed 4 days ago
3153121

feat: Appointmate details page completed
rjlama07 committed 4 days ago
7764ade

Figure 4 github commit screenshot 1


feat: book doctor page
rjlama07 committed last week
7b0f55f

Commits on Mar 26, 2023

feat: pull to refresh in homepage
rjlama07 committed last week
22c940f

refractor: minor UI changes
rjlama07 committed last week
2b8a176

feat: doctor profile completed
rjlama07 committed last week
fc97010

fix: null on appointment get request
rjlama07 committed last week
3eb46bb

feat: get appointment on homepage
rjlama07 committed last week
d7746c2

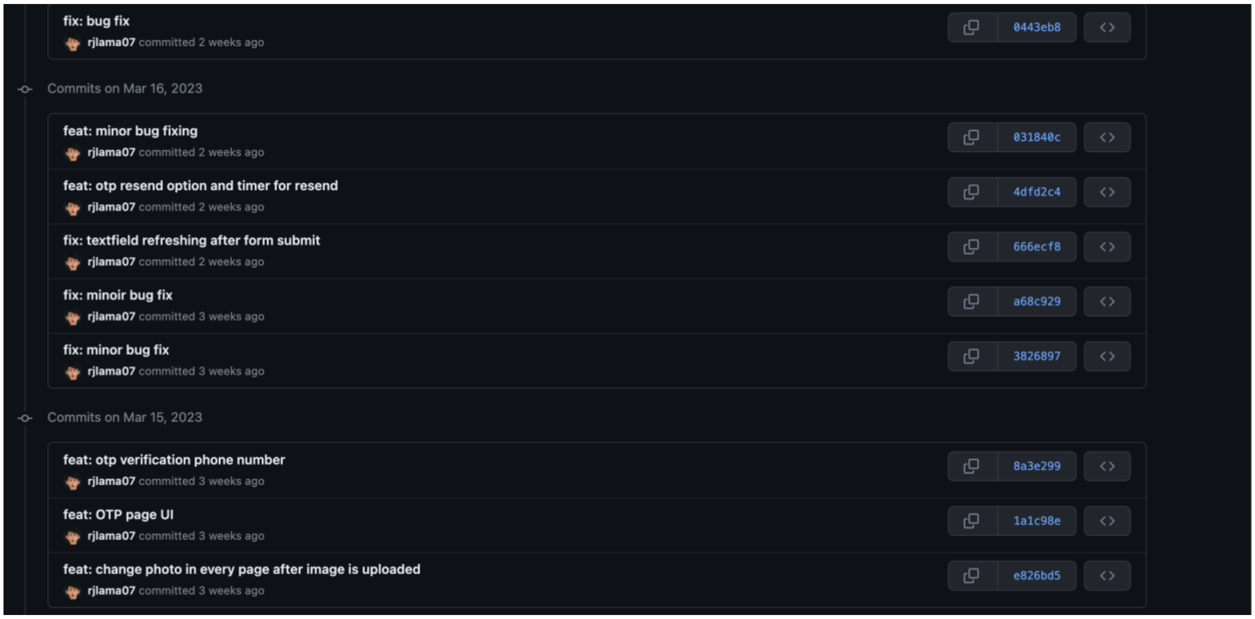
feat: show doctors
rjlama07 committed last week
20b2561

add: doctor model
rjlama07 committed last week
c1fbcb3

feat: otp page UI ···
rjlama07 committed last week
efad09d

Commits on Mar 24, 2023

Figure 5 github commit screenshot 2



fix: bug fix
rjlama07 committed 2 weeks ago
0443eb8

Commits on Mar 16, 2023

feat: minor bug fixing
rjlama07 committed 2 weeks ago
031840c

feat: otp resend option and timer for resend
rjlama07 committed 2 weeks ago
4dfd2c4

fix: textfield refreshing after form submit
rjlama07 committed 2 weeks ago
666ecf8

fix: minoir bug fix
rjlama07 committed 3 weeks ago
a68c929

fix: minor bug fix
rjlama07 committed 3 weeks ago
3826897

Commits on Mar 15, 2023

feat: otp verification phone number
rjlama07 committed 3 weeks ago
8a3e299

feat: OTP page UI
rjlama07 committed 3 weeks ago
1a1c98e

feat: change photo in every page after image is uploaded
rjlama07 committed 3 weeks ago
e826bd5

Figure 6 github commit screenshot 3

As a member of our organization's development team, I have been actively contributing to our projects by making numerous commits to our GitHub repository. To ensure effective collaboration and organization, I have made it a priority to follow proper commit message formatting.

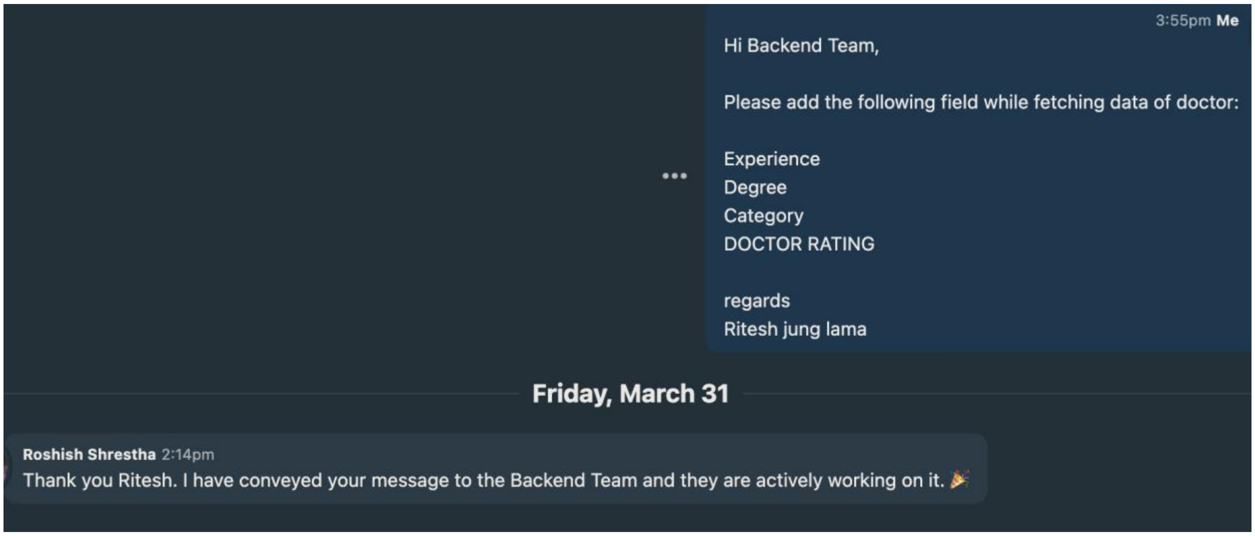
Throughout my contributions, I have made a total of 92 commits, reflecting the various changes and improvements made to our codebase. From bug fixes to feature additions, each commit was made with the goal of improving the overall functionality and user experience of our applications.

In addition to making regular commits, I have also taken the time to review and analyze the code changes made by my fellow team members. By doing so, I am able to provide feedback and suggestions for improvement, ultimately leading to a more cohesive and efficient codebase.

Overall, my commitment to maintaining clear and organized commits serves as a testament to my dedication to our organization's development efforts.

Appendix 2

Evidences of Good communication and file sharing



3:55pm Me

Hi Backend Team,

Please add the following field while fetching data of doctor:

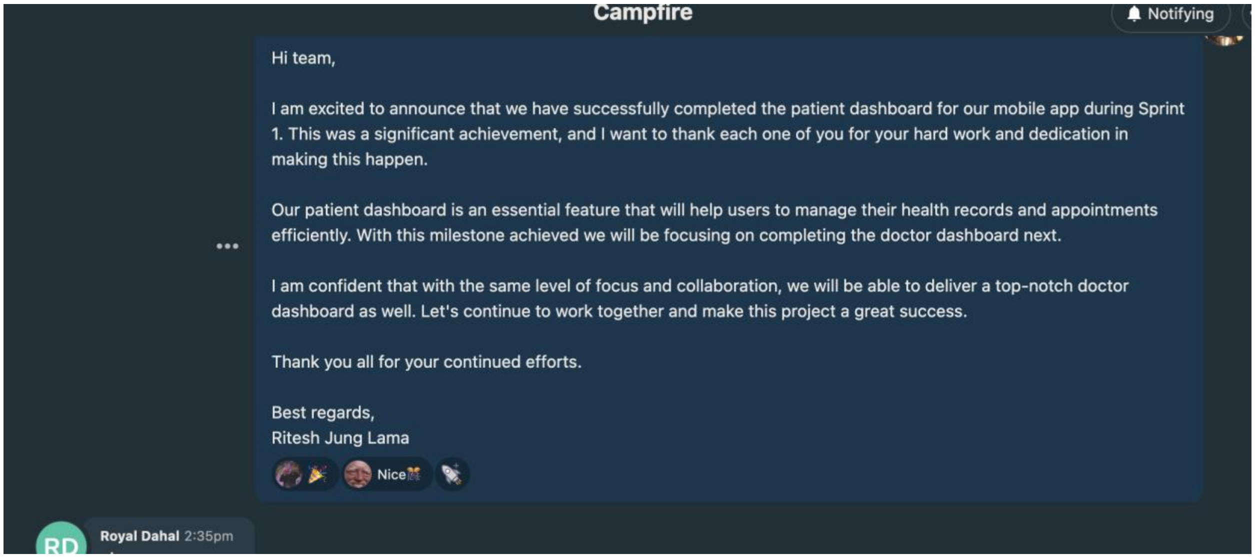
Experience
Degree
Category
DOCTOR RATING

regards
Ritesh jung lama

Friday, March 31

Roshish Shrestha 2:14pm
Thank you Ritesh. I have conveyed your message to the Backend Team and they are actively working on it. 🎉

Figure 7 BaseCamp messages screenshot 1



Hi team,

I am excited to announce that we have successfully completed the patient dashboard for our mobile app during Sprint 1. This was a significant achievement, and I want to thank each one of you for your hard work and dedication in making this happen.

Our patient dashboard is an essential feature that will help users to manage their health records and appointments efficiently. With this milestone achieved we will be focusing on completing the doctor dashboard next.

I am confident that with the same level of focus and collaboration, we will be able to deliver a top-notch doctor dashboard as well. Let's continue to work together and make this project a great success.

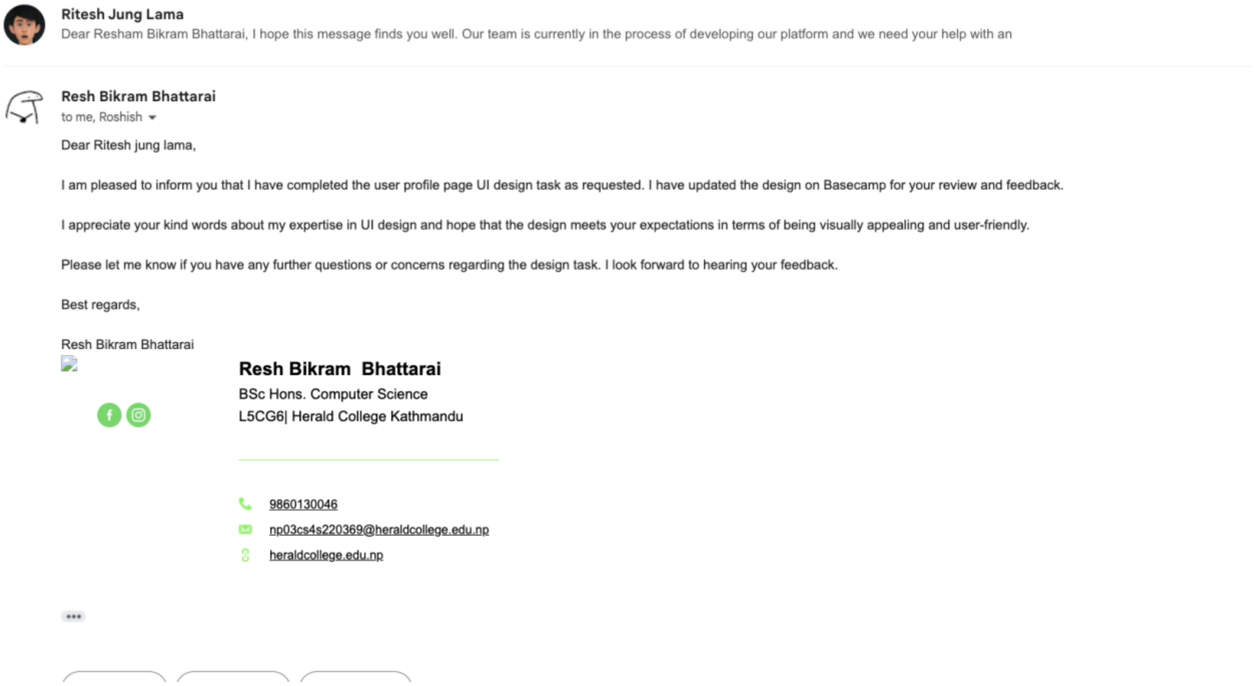
Thank you all for your continued efforts.

Best regards,
Ritesh Jung Lama

🎉 Nice🎊 🚀

RD Royal Dahal 2:35pm

Figure 8BaseCamp messages screenshot 2



Ritesh Jung Lama
Dear Resham Bikram Bhattarai, I hope this message finds you well. Our team is currently in the process of developing our platform and we need your help with an

Resh Bikram Bhattarai
to me, Roshish

Dear Ritesh jung lama,

I am pleased to inform you that I have completed the user profile page UI design task as requested. I have updated the design on Basecamp for your review and feedback.

I appreciate your kind words about my expertise in UI design and hope that the design meets your expectations in terms of being visually appealing and user-friendly.

Please let me know if you have any further questions or concerns regarding the design task. I look forward to hearing your feedback.

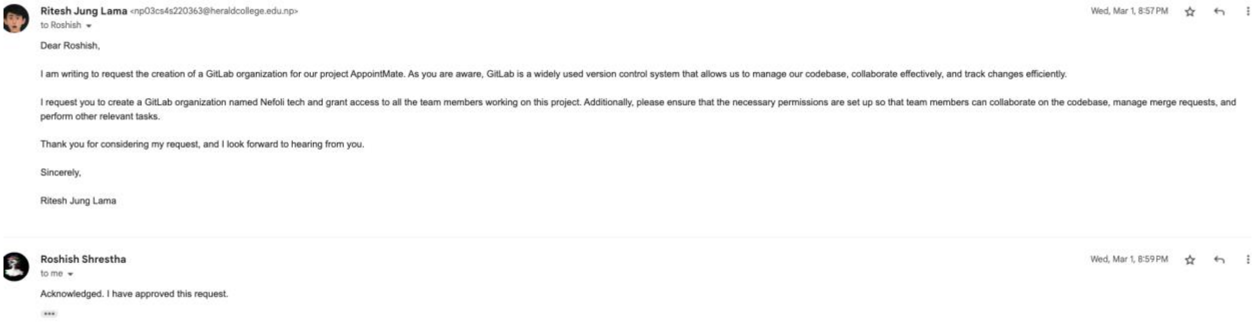
Best regards,

Resh Bikram Bhattarai

Resh Bikram Bhattarai
BSc Hons. Computer Science
L5CG6| Herald College Kathmandu

☎ 9860130046
np03cs4s220369@heraldcollege.edu.np
heraldcollege.edu.np

Figure 9 email messages screenshot 1



Ritesh Jung Lama <np03cs4s220363@heraldcollege.edu.np>
to Roshish
Wed, Mar 1, 8:57 PM

Dear Roshish,

I am writing to request the creation of a GitLab organization for our project AppointMate. As you are aware, GitLab is a widely used version control system that allows us to manage our codebase, collaborate effectively, and track changes efficiently.

I request you to create a GitLab organization named Nefoli tech and grant access to all the team members working on this project. Additionally, please ensure that the necessary permissions are set up so that team members can collaborate on the codebase, manage merge requests, and perform other relevant tasks.

Thank you for considering my request, and I look forward to hearing from you.

Sincerely,

Ritesh Jung Lama

Roshish Shrestha
to me
Wed, Mar 1, 8:59 PM

Acknowledged. I have approved this request.

Figure 10 email messages screenshot 2

So these are the screenshots of my message in backend and on need of fast response I have emailed my team mates .

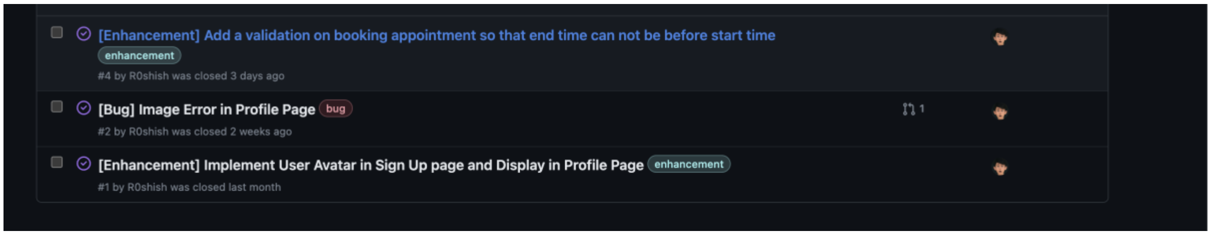
Evidence of Continuing Personal Development (CPD)

As a dedicated Flutter developer, I recognized the significance of meticulous research in delivering top-notch applications. Consequently, I invested a substantial amount of time in acquiring a deep understanding of the mobile application development process. This involved scouring the internet for relevant documentation, consuming educational videos on YouTube, and perusing industry best practices.

Moreover, I remained up-to-date with the latest advancements in state management in Flutter by following prominent developers in the community on social media and regularly attending virtual meetups and webinars on the subject. This ensured that I had a comprehensive understanding of the latest trends and techniques in the field.

Despite my conscientious approach, I occasionally encountered complex challenges that required expert intervention to overcome. In such cases, I turned to reputable online resources such as Stack Overflow and Quora, which provided invaluable insights and advice from experienced developers. Additionally, I capitalized on the benefits of AI chatbots to troubleshoot and resolve issues expeditiously, allowing me to maintain efficiency and meet project deadlines.

Evidences of Issue tracking



☐ [Enhancement] Add a validation on booking appointment so that end time can not be before start time enhancement
#4 by R0shish was closed 3 days ago

☐ [Bug] Image Error in Profile Page bug 1
#2 by R0shish was closed 2 weeks ago

☐ [Enhancement] Implement User Avatar in Sign Up page and Display in Profile Page enhancement
#1 by R0shish was closed last month

Figure 11 Issue tracking Screenshot

As part of the frontend development phase, I shared my work on Git-hub to enable my team members to review and test it. During their testing, they identified some minor issues, such as the end time for booking appointments being set prior to the start time. I resolved these issues by implementing the necessary validations. Our project manager also suggested some enhancements, including adding a user avatar to the Sign-Up page and displaying it on the profile page. I took on the task and successfully integrated the requested features into the project, resulting in a more user-friendly experience.