Timeline

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| Team Members:Name Student Number Primary Role Secondary Role *Salman Alsamiri* D1812418 Coordinator Documentation  *Nicolas Condrea* C18424946 Planner Documentation  *Antony Morris* C18465176 Coder Documentation  *Rianlee Gabriel Pineda* C18301026 Tester Documentation  *Xie Xin* D17128351 Designer Documentation |
| Project Title Get Help App |
| Version Number: G.H.A Version 1.2. **Change History:**   |  |  |  | | --- | --- | --- | | **Date** | **Author** | **Comments** | | 19/02 | *Nicolas*  *Condrea* | downloaded document, proposed planning process and worked on the document. | | 21/02 | *Xie Xin* | Update the Technical Requirements | | 23/02 | *Salman Alsamiri* | Updating the planning document. | | 23/02 | *Antony Morris* | Updating proposed approach(Overall approach, requirements phase, design, implementation and testing) | | 25/02 | *Nicolas Condrea* | Finalised the document for week 5 submission. | | 26/02 | *Salman Alsamiri* | updated and indented the document and added more of and to plan project weeks. | | 02/03 | *Nicolas Condrea* | filled the plan project weeks. | | 04/03 | *the team* | finalised and double checked the document. | |
| Summary This project goal is to help people by making it easier to talk and connect to experts in different fields. User(s) can choose to register or login to this app using email or mobile number and after logging in they can see a number of help options on the main screen. When clicking one of them it will go to another list to choose the professional and be able to communicate by voice message, sending video, image or text , and then be able to get help.  The calling options will be left out to allow the two sides to use their preferred voice or video calling method, the expert’s data could be added in by the user as it is the best choice, and finally a planner screen that helps in planning and making appointment(s). |
| Proposed Approach **0. Overall approach:**  Agile methodology is a method that breaks the work process into stages and one of the important reasons we chose it for other than for organising the work process is because it caters to the client and put them into an important position, as one of the objectives of the module is to be working with the clients and treat them as co-workers.  This comes with risks, such as having to prepare to change the design many times at the early stages of the process, and even in late stage, because making sure the client is included in every decision, as it is one of the risks of this development method it is important to make sure the client is pleased with a functional results.  **1. Requirements Phase:**  We will determine project goals and objectives early on in the development of the app with the help of our co designers. If our scope is too wide we can risk not being able to complete the app. We must have defined goals each week to stay on track. Our approximate start date is the last week of january and the approximate end week is april.  **2. Design Phase:**  We will be using agile methodology to develop and design our app. The main way we will be designing the app is by creating prototypes and creating questions based on those prototypes to get an idea of what the end user thinks and wants. We will then be using the feedback from the end users to develop further more defined prototypes. The risks involved with this method is that the end users might not be 100% honest with their feedback so we have to think about the questions we are asking carefully and almost predict the way they will respond to those questions and adapt the questions to make sure we will get the answers we need. The approximate start date for this is week 1 late january and the stop date is the last week of the project development as we will be looking for end user feedback as we develop the project.  **3. Implementation Phase:**  We will be using java(android studio) and SQL with a sqlite database. The app will be run on android and we will be hosting the database on AWS. We will be using github for version control and backups. We will be using aws to store the database data. The risks are aws rds free tier may not provide us with what we need to host the app so we would have to find a different service which shouldn't be much of an issue..Approximate start date is first week of march and end date is last week of the teamwork module.  **4. Testing Phase:**  We will be testing the app each week. The main areas we will be testing for is usability,compatibility,interface,performance and accessibility. We will be testing these areas using unit testing,interface testing, integration testing, performance testing and others. We will also be doing some user acceptance testing to make sure the app will be suitable for the target audience, we will be doing this type of testing with the codesigner each week in a zoom call.  There are no real risks involved with testing as you are looking for issues so if issues arise it's good as that means you are testing well. The only risk is not testing enough or using correct testing methods. The approximate start date for testing is as soon as we start coding and the end date is when we finish coding.  **5. Debugging Phase:**  At this stage the app should be ready to be delivered, but after the app has finished being tested it will show a number of bugs or errors that need be fixed and debugged, so we will be reviewing the original software design and try to pin points the main functionalities that need to be fixed the most and priorities them over miscellaneous functions or setting. |
| Deliverables  |  |  |  |  | | --- | --- | --- | --- | | Code | Name | Priority | Description | | 0 | Prototype | Base | Use draw.io to create prototypes for this project. And design model for the project with the ideas. It can intuitively see what the software looks like after it is completed. | | 1 | Registration system | Base | The user/client creates an account using their email/phone number. Once they have logged in, they have full access to the application’s functionalities, e.g., book an appointment, get help from the doctor. | | 2 | help/expert list | Base | This will display the registered contact list of help options/experts that has been added via the registration system. | | 3 | Reminder list | Base | This will display the appointments to the user and could edit/update and delete the appointments if the wish to do so. | | 4 | message board | Base | This is where once the user registered a contact then they will be able to start a conversation thread where they send text or media and it will be sent into the contact’s email or/and maybe their phone(stretch). | | 5 | scrolling buttons | Stretch | This feature was welcomed by some and not everyone so it might be helpful to add it in the design, but if only if there was a time to do so. | | 6 | General setting | Stretch | This is stated as a Stretch as it is important to get done with the main functionality and requirements first before adding settings screen. | | 7 | Theme setting | Stretch | This should allow the user to change the interface pallet to dark mode, normal or other colour pallet, such as a pallet or two for colour blindness and such. | | 8 | Alarm setting | Stretch | This is an extension to the reminder list screen, and if both the reminder and general settings screens are done then this screen might be implemented. | | 9 | Building the app | Next Version | This will occur once we finalize a number of steps and requirements. | |
| Technical Requirements We are going to use Agile to design this app which is available with Android System. For the prototype we use draw.io to design, it can choose mobile models and do advanced to form what we need. Then IBM is used to make class diagrams, sequence diagrams and use case diagrams.In addition, the Data Modeling is used to make Entity Relationship Diagrams. We decided to use java programming language in the design, it is easy to understand and we have all learnt java. In order to facilitate our communication and sharing information, we also use Microsoft Teams to have voice calls and share screens, and use GitHub and Google Drive to share information. And on the weekend we put our each plan for next week in Trello. |

## Related Documents

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| |  |  |  | | --- | --- | --- | | Document Title | Author(s) | Description | | Design document | The team | The design document showcasing the process and changes the design and development of the app have undergone. | | team charter | The team | This charter is still used as the rules of the team and how we move onward along with how we dictate every the rules and the policies of the team,. | | Prototype showcase presentation | The team | The Prototype presentation acts as a visual representation of how the user will interact with app once it is complete to a degree, as it is not the final or beta version of the app it depends on using hyperlink that links each image on the slide with another slide and does not require the user to move between the slides in a numerical order. | | The Project Plan document | The team | The project plan document will be assisting the process of developing the app while following the agile methodology. | | The question document | the team | This document is where we prepare questions to ask the clients at each meeting to try and get responses that will be of assistance in developing the app and suit the client's needs, while pleasing the clients wants and making them aware of every step taken. | | The project plan and risk management presentation | the team | This presentation will be about the planning phases and how we have planned and considered each step along with the risks accompany each step of the plan. | |

## Project Plan

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| **Week 1:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Decide on a project | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | There are 5 possible projects  to choose from. We are going  to choose which one we all  agree suits us best. | | 2 | Team charter | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | This is a document that  describes the agreements to be  made concerning the conduct  of the team, e.g., what apps  will we use, how will we make  decisions,  what happens if someone is late? | | 3 | Establish roles | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | We will decide who is best at  particular tasks and allocate  roles based on this decision. | |
| **Week 2:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Complete the team charter | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | The charter was due at the  end of week 2, so we will have  time to refine it. | | 2 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Make a start on the PowerPoint  presentation file for the  project bid on Friday. | | 3 | Wednesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Finish the PowerPoint today.  Finish the Project Document. | | 4 | Thursday meeting | Low | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Create a presentation script  and decide who gets what slides  to speak over for Friday. | | 5 | Presentation rehearsal | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the project presentation  before the real one on Friday. | |
| **Week 3:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Brief meeting to arrange plans  for the future. | | 2 | Create questions for the clients | High | Rianlee Gabriel,  Antony | Come up with some possible questions  for the clients so that we know how to  cater the app to them to the best of our  abilities. | | 3 | Use Trello | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Keep track of future plans using Trello. | | 4 | Thursday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Finish the PowerPoint for a showcase to  the clients on Friday. | | 5 | Prepare for the client meeting | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation to the clients before the  real one on Friday. | |
| **Week 4:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Discuss who does what according to the detailed system design section of the design document. | | 2 | Use-case diagram | High | Nicolas | A diagram to identify functions and how roles interact with them. | | 3 | Class and sequence diagrams | High | Xin | Class diagrams identify all the classes in a program and their relationships/multiplicity.  Sequence diagrams describe interactions among classes in terms of messages. | | 4 | Entity relationship diagrams | High | Rianlee Gabriel | An ERD models all the possible entities in a database and their relationships. | | 5 | Thursday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Finish the project document and the PowerPoint for a presentation on Friday. | | 6 | Presentation rehearsal | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation  before the real one on Friday. | |
| **Week 5:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Brief meeting to arrange plans  for the future. | | 2 | Improve prototype | High | Nicolas, Salman, Xin | Create better prototypes based on feedback from last Friday’s presentation. | | 3 | Create questions for the clients | High | Rianlee Gabriel,  Antony | Come up with some possible questions  for the clients so that we know how to  cater the app to them to the best of our  abilities. | | 4 | Prepare for the client meeting | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation to the clients before the real one on Friday. | |
| **Week 6:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Finish off the project plan and make a start on the PowerPoint for a presentation on Friday. | | 2 | Thursday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Finish off the PowerPoint and create a script for the presentation on Friday. | | 3 | Presentation rehearsal | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the project plan presentation  before the real one on Friday. | |
| **Week 7:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Brief meeting to arrange plans  for the future. | | 2 | Revision of the design and the plan | High | Xin, Nicolas | Double check on the design and plan so that any necessary changes to them can be made. | | 3 | Begin coding | High | Antony | Make a start on developing the app using Android Studio. | | 4 | Thursday meeting | Low | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Brief meeting to make sure everyone knows what they are doing. | | 5 | Prepare for client meeting | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation to the clients before the real one on Friday. | |
| **Week 8:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Brief meeting to arrange plans  for the future. | | 2 | Coding | High | Antony | Develop the app in Android studio. | | 3 | Testing | High | Rianlee Gabriel | Try to break the app and find any logical errors or bugs in the app. | | 4 | Documentation | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Write down explanations/descriptions of the app and how it works etc. | | 5 | Presentation  rehearsal | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation  before the real one on Friday. |   **Week 9:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Brief meeting to arrange plans  for the future. | | 2 | Coding | High | Antony | Develop the app in Android studio. | | 3 | Testing | High | Rianlee Gabriel | Try to break the app and find any logical errors or bugs in the app. | | 4 | Documentation | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Write down explanations/descriptions of the app and how it works etc. | | 5 | Prepare of client meeting | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation to the clients before the real one on Friday. |   **Week 10:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman,  Nicolas, Rianlee Gabriel,  Antony, Xin | Brief meeting to arrange plans  for the future. | | 2 | Coding | High | Antony | Develop the app in Android studio. | | 3 | Testing | High | Rianlee Gabriel | Try to break the app and find any logical errors or bugs in the app. | | 4 | Documentation | High | Salman,  Nicolas, Rianlee Gabriel,  Antony, Xin | Write down explanations/descriptions of the app and how it works etc. | | 5 | Presentation rehearsal | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation  before the real one on Friday. |   **Week 11:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman,  Nicolas, Rianlee Gabriel,  Antony, Xin | A short meeting to be hosted maybe for an hour or to in order to discuss any plans and ideas | | 2 | Coding | High | Antony | Programming the app | | 3 | Testing | High | Rianlee | Try to break the app and find any logical errors or bugs in the app. | | 4 | Prepare for App presentation | High | Salman,  Nicolas, Rianlee Gabriel,  Antony, Xin | Setting up the presentation slides and adding related documents and materials into the presentation to submit and present. | | 5 | Prepare for client presentation | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation to the clients before the real one on Friday. |   **Week 12:**   |  |  |  |  |  | | --- | --- | --- | --- | --- | | Phase | Task | Priority | Name | Description | | 1 | Tuesday meeting | Medium | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Discuss and plan the next big step. | | 2 | Documentation | High | Salman,Nicolas,Xin | Finish off the documentation. | | 3 | Debugging | High | Antony | Find any bugs in the code before finalising the app. | | 4 | Testing | High | Rianlee | Try to break the app and find any remaining logical errors before finalising the app. | | 5 | Prepare for app presentation | High | Salman, Nicolas, Rianlee Gabriel,  Antony, Xin | Do at least 1 practice run of  the presentation. | |

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| **Risk Register** | | | | |
| Risk ID | Risk Title | Probability [Hi,Med,Low] | Impact | Action |
| 1 | We may not meet the needs of the user. | Medium | They may not use our app to its fullest potential. | Make sure to follow up with the men and women and ask relevant questions. |
| 2 | Tight schedules. | High | Tight schedules can reduce the amount of work input the team can contribute to. | Make sure we discuss our schedule between team members and agree on when meetings should be held. |
| 3 | Poor management. | Medium | Team members may become unmotivated and work quality and rate can be reduced. | By practicing effective communication with the team and implementing elaborate documentation processes. |
| 4 | Time | Medium | There may be the possibility that we can run out of time which can lead to an unfinished app. | Establish and strictly follow a to-do list every week making sure everything is done ideally within the time frame to avoid work piling up. |
| 5 | Work Placement | Low | There is a possibility that one or more of us may be offered a placement, this can lead to extra responsibilities being placed on the remaining team members. | Let members know in advance of the chance that you may leave for work placement, the team knows this is a possibility and if it were to occur we have agreed to split the work accordingly. |
| 6 | Poor quality code | Medium | If the quality of code isn't up to par, there is a significant risk that the project may not be successful. | Constant testing of all written code should be done regularly. |
| 7 | Risk Management | Medium | Improper recognition of the project specific risks may result in inadequate risk management. | Including and filing out a risk register such as this one here and including risk in estimations. |
| 8 | Ownership | Low | If there is a lack of ownership in software development it will mean that no one is responsible for the success and failures. | Document or record meetings that happen. |