



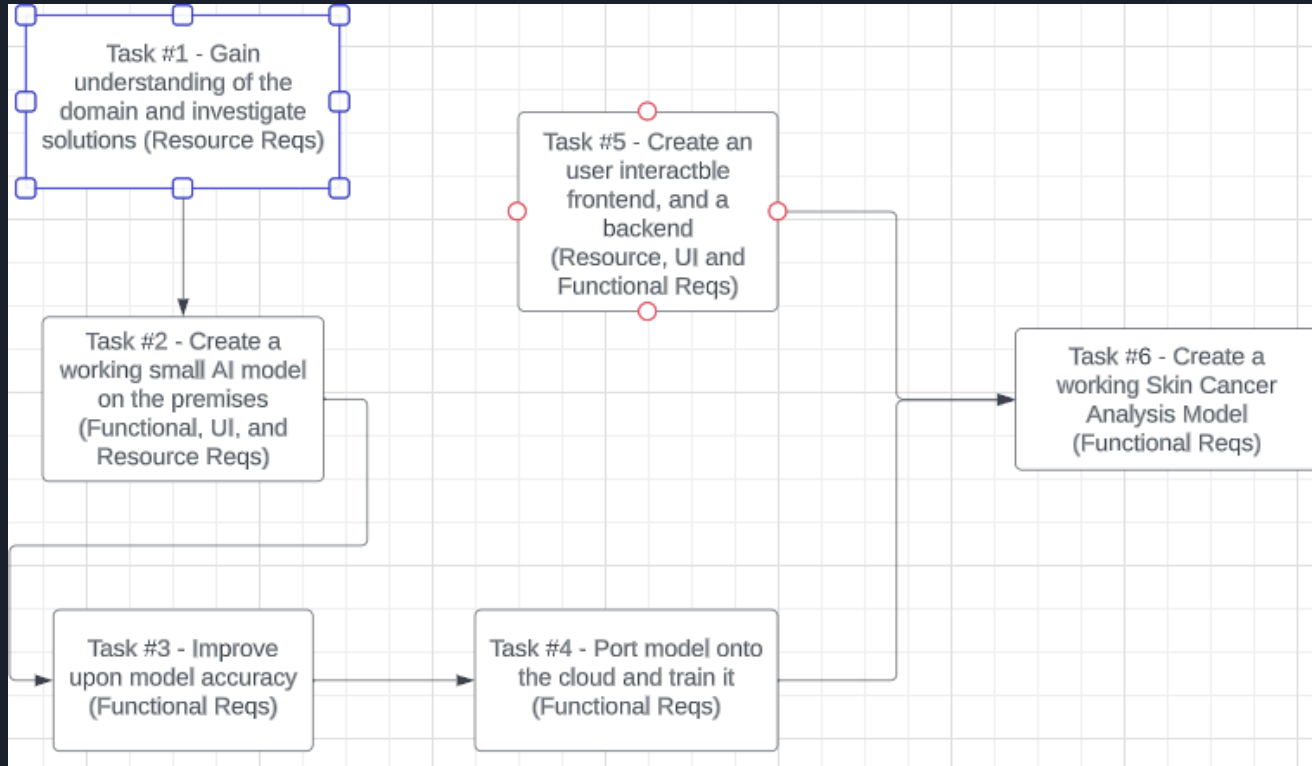
Project Plan



Project Management Style

- Project Management
 - Agile
- Tracking Progress
 - Github Issues

Task Decomposition





Proposed Milestones

1. Training students on AI and cloud computing: 3-4 weeks
2. Introducing students to AI skin cancer practices as done by Mayo Clinic: 2 weeks
3. Starting a small AI model on premises: 4 weeks
4. Improving the model accuracy: 4-6 weeks
5. Porting the model on the Cloud and training it: 4-6 weeks

Project Schedule

| week | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 | 18 | 19 |
|---|---|---|---|---|---|---|---|---|---|----|----|----|----|----|----|----|----|----|----|
| Train on AI and cloud computing | █ | █ | █ | █ | | | | | | | | | | | | | | | |
| Introduction to AI skin cancer practices | | | | █ | █ | | | | | | | | | | | | | | |
| Gain knowledge about our domain and investigate solutions | | | | █ | █ | █ | █ | █ | | | | | | | | | | | |
| Small AI model | | | | | | █ | █ | █ | █ | | | | | | | | | | |
| Improve model accuracy | | | | | | | | | | █ | █ | █ | █ | █ | | | | | |
| Port model to cloud and train | | | | | | | | | | | | | | | █ | █ | █ | █ | |



Risk(s) Mitigation

1. Difficulty transferring AI model to the cloud - 0.3
2. The training for our AI could be off resulting in bad outputs - 0.5 - We would prevent this by starting with smaller models to prevent time being wasted if the model was trained incorrectly.
3. Slow performance - 0.3
4. Refactor UI code - 0.1
5. Difficulty understanding some of the tools - 0.2
6. Not reaching the desired level of accuracy - 0.4



Personnel Effort Level

| Task | Projected Effort | Reference |
|------------------------------|------------------|---|
| Learn AI and Cloud Computing | 20hr total | Learning the AI will take some time commitment to understand the software and coding required for the project |
| Acquire the Datasets | 4hr total | |
| Set Up Model Environment | 2hr total | |
| Create and train AI Model | 8hr total | |
| Test the AI Model | 12hr total | We need to commit enough time to making sure the model works as intended and to find any flaws |
| Improve Model Accuracy | 12hr total | It may take some time to improve the models |
| Create Model UI | 10hr total | We will write the code necessary for a web application |



Other Resource Requirements

1. An AI model to base our own on. We will use Keras.io for this.
2. A dataset to train the model with. We will need to find an open source image dataset to use. This will be found from ISIC.