**Team members: -**

1. Nivedhidha I
2. Jishnu V
3. Joselyn Diana Cindrella M
4. Kabilan A
5. Kali Deepak T

**Timeline Of Work Given: -**

**Key - Completed, Shifted to next week**

**Week one work:**

* Watch Tableau Video
* Practice Using Tableau

**Week two work:**

* Watch Tableau Video
* Watch MySQL video
* Decide dataset
* Review PPT

**Week three work:**

* Watch AWS video
* Create AWS account
* Finish assignment of 5 questions
* Complete analysis of at least one of the questions
* Review PPT

**Week four work:**

* Demonstrate how your website will look using some UI tool
* Complete analysis of remaining questions
* Make stories for the questions
* See the AWS video

**Week five work:**

* Watch AWS taught by senior
* Complete the website and be ready for hosting
* Watch React video
* Try making website using React
* Python ML Project
* Complete prediction part if any

**Week six and seven works:**

* Complete prediction part if any
* Watch React video
* Try making website using React
* Complete Hosting Part

**Week eight work:**

* To make the website Dynamic
* To make the website Responsive
* To make a form which gets values from users and calculate their happiness score (e.g.: PERMA test)

**Notes Taken:**

**Week 1:**

Sample Dataset practice:

1. In what means age and gender plays a role in impacting the number of people affected my heart disease?

* **Age based which has more**
* **Gender based which has more**
* **Both combined**

1. How can we predict heart attack based on various causes?

**220-Age and thalachh compare and see if this change has affected angina**

**Causes bar graph**

* **trtbps: resting blood pressure (in mm Hg)**
* **chol: cholesterol in mg/dl fetched via BMI sensor**
* **fbs: (fasting blood sugar > 120 mg/dl) (1 = true; 0 = false)**
* **rest\_ecg: resting electrocardiographic results**
* **exang: exercise induced angina (1 = yes; 0 = no)**

**Prediction of target**

1. How chest pain affects the rate of heartbeat and which type of chest pain will have more chance of heart attack?

* **Heart attack and chest pain types of Heart rate and chest pain types**

Decide dataset:

* Ensure if we can extract data easily from the dataset
* Check if the data is interesting to us and others
* Check how the analysis on the dataset is going to be useful

PPT based on these 6 slides:

* What data topic names
* Why the data
* From where data source
* About data
* What we are going to find – 8 questions
* Work split up

Union to be formed by Cleansing of Dataset (Columns For All 5 Years [col-10]):

* Country
* Region
* Happiness Rank
* Happiness Score
* Economy (GDP per Capita)
* Social Support
* Health (Life Expectancy)
* Freedom
* Trust (Government Corruption)
* Generosity

Questions Formed:

1. What is the overall situation in world regarding happiness? (Nivedhidha)
2. Which countries are better positioned in each of the aspects? (Jishnu)
3. Finding the reason why happiness rank changed over the years in different regions? (Jishnu)
4. In what ways, generosity, and Health plays a role in impacting the world happiness score? (Cindrella)
5. Does a country's GDP affect the happiness rate? (Cindrella)
6. What is the trend that has been followed by India’s happiness score in the past 5 years? (Kabilan)
7. Which country has more trust on government with respect to freedom? (Kali Deepak)
8. A survey to find which are the factors causing less happiness scores in few regions and prediction on how it would be if improved. (Nivedhidha)

**Week 3:**

* Completed 3rd and 6th questions.
* Started with 1st and 5th questions.

**Week 4:**

* All the questions except 7th is completed and their respective story boards are also completed
* 7th Question is going to involve prediction of the position of an imaginary country (Python ML Project)
* UI Design of Website Completed

**Week 5:**

**Website:**

* + - * Planning of website completed
* Logo
* Colour code
* Font
* Get code from tableau
* Decide exact what and all links required
* Do Routing
* Header – (Logo, Navbar)
* Footer – (Repository Link, Dataset Link)
* Complete copy pasting the code from tableau
* Complete writing html code of other pages
* Finish the CSS part of the website
  + - * Completed the website in Angular
      * Completed the ML Project using Python
      * All work in GitHub - <https://github.com/Nivedhidha-I/World-Happiness-Report>

**Week 6 & 7:**

* Learnt React and Completed website in using React
* Hosted The Website

**Week 8:**

**References: -**

* <https://www.kaggle.com/mathurinache/world-happiness-report?select=2015.csv> - for Collecting Dataset
* <https://en.wikipedia.org/wiki/World_Happiness_Report> - for Understanding the Dataset
* <https://www.youtube.com/watch?v=aHaOIvR00So> - for Learning Tableau
* <https://www.geeksforgeeks.org/plot-a-pie-chart-in-python-using-matplotlib/> - how to Customize a pie chart in python
* <https://www.bitdegree.org/learn/train-test-split> - about linear model
* <https://www.geeksforgeeks.org/linear-regression-python-implementation/> - how to make a linear model in python
* <https://youtu.be/W6NZfCO5SIk> - for learning JS basics
* <https://youtu.be/PFmuCDHHpwk> - for learning JS OOPS concept
* [https://youtu.be/NCwa\_xi0Uuc](https://youtu.be/NCwa_xi0Uuc%20) - for learning ES6
* <https://youtu.be/QFaFIcGhPoM> - for learning React JS
* [https://plnkr.co/edit/ZSfSja?p=info&preview](https://plnkr.co/edit/ZSfSja?p=info&previewI) - Integration of code into angular
* <https://www.npmjs.com/package/tableau-react-embed#usage> - integration of tableau into react
* <https://www.datacamp.com/community/tutorials/git-push-pull> - for Using GitHub Repository
* <https://youtu.be/lB4DTqMEumY> - for Learning Hosting in AWS