** King Saud University**

**College of Computer and Information Sciences**

**Department of Computer Science**

**Project Title: Linked List Phonebook**

**Phase I**

**Group Members**

**Abdulaziz Altekhaifi (443100756)**

**Mazen Alkhodairi (443102007)**

**Abdulaziz Alali (443100240)**

**Data Structures (CSC212)**

**First Semester 2023**

**Dr. Mohammed Alzaid**

**Workplan:**

**We started working on 5th of October.**

|  |  |
| --- | --- |
| **Class** | **Date** |
| Contact | **7-9 Oct** |
| ContactSearchCriteria | **7-9 Oct** |
| Event | **7-9 Oct** |
| EventSearchCriteria | **7-9 Oct** |
| LinkedListADT | **5,6 Oct** |
| Node | **5,6 Oct** |
| PhoneBook | **10-13 Oct** |
| Editing Classes | **14,15 Oct** |
| Report and Big-Oh | **16,17 Oct** |

**Meetings:**

Meeting 1: 8/10, adding and implementing attributes of contact and events classes.

Meeting 2: 9/10, determining a search criteria for contact and events.

Meeting 3: 10/10, short meeting, start working on phonebook and determining its methods.

Meeting 4: 11/10, short meeting, discussing methods to be added to phonebook class.

Meeting 5: 12/10, start of implementing phonebook methods.

Meeting 6: 13/10, finalizing the methods of phonebook class.

Meeting 7: 14/10, make phonebook class shorter by moving some methods to other classes.

Meeting 8: 15/10, exception handling/testing of all classes.

Meeting 9: 16/10, start working on the report.

Meeting 10: 17/10, finish working on the report.

**Distribution of tasks:**

|  |  |  |
| --- | --- | --- |
| **Class** | **Implementer** | **Reviewed by** |
| Contact | Alali | Altekhaifi, Mazen |
| ContactSearchCriteria | Alali | Altekhaifi, Mazen |
| Event | Altekhaifi | Alali, Mazen |
| EventSearchCriteria | Altekhaifi | Alali, Mazen |
| LinkedListADT | Mazen | Alali, Altekhaifi |
| Node | Mazen | Alali, Altekhaifi |
| PhoneBook | Alali, Altekhaifi, Mazen. | Alali, Altekhaifi, Mazen. |
| Report and Big-Oh | Altekhaifi, Mazen. | Alali |

**Assumptions:**

**- Every contact has its own events linked list (one to many relationship).**

**- We assumed that the name format is “First Last”.**

**- Phone number must be 10 digits.**

**- The email address format must be (**[**example@example.example**](mailto:example@example.example)**).**

**- The birthday must be formatted as (dd/mm/yyyy).**

**- Event must be formatted as (dd/mm/yyyy HH:mm).**

**Technologies used by group members during project:**

**- WhatsApp for communication and exchanging code files.**

**- Discord for meetings.**

**- Stack Overflow for checking errors.**

**- ChatGPT for errors and comments.**

**- Smashing Logo for the creation of our AI generated logo.**

**- Eclipse IDE as code editor.**

**- W3Schools and Harmash for basic coding concepts.**

**- YouTube for understanding libraries.**