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| **Thesis / Project Title: CodeFlow** | Tick the appropriate box | |
| **BS** | **MSCS** |
| **Brief Description:**  Novice programmers and students often encounter difficulties in understanding programming concepts due to the abstract nature of code and complexities in creating logical program flows. Students can not understand how things works behind the scene. To bridge this gap, CodeFlow proposes an innovative web-based solution having intuitive drag-and-drop interface, enabling users to create program code by assembling elements of a flowchart, sophisticated algorithm for code-to-flowchart conversion accurately translates textual code into visual flowcharts, user can execute program with a clear representation of program logic. Moreover, memory map visualization, enabling learners to observe data storage and manipulation during program execution. |
| **Tools to be used:**  **VScode**  **GCC**  **GDB**  **C++**  **Reactjs** | |

**Particulars of the students:**

(MS students are not allowed to work in groups)

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| **Sr. #** | **Registration#**  eg.**L1F00BSCS0101** | **Name in Full**  Use Block Letters | **Email**  Only UCP Email | **Contact #** | **CGPA** | **Signatures** |
| **1** | L1F20BSSE0191 | MUHAMMAD HASEEB NAWAZ | l1f20bsse0191@ucp.edu.pk | 03219173161 | 2.5 |  |
| **2** | L1F20BSSE0183 | MUHAMMAD MUJEEB | l1f20bsse0183@ucp.edu.pk | 03354140322 | 2.25 |  |
| **3** | L1F19BSSE0073 | ROHAN QAMAR | l1f19bsse0073@ucp.edu.pk | 03101444965 | 2.43 |  |

# Advisor’s Consent

I Prof. /Dr. /Mr. /Ms. \_\_\_\_\_\_Mohsin Sami\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ am willing to guide these students in all phases of above-mentioned project / thesis as advisor. I have carefully seen the Title and description of the project / thesis and believe that it is of an appropriate difficulty level for the number of students named above.

**E-Mail Address** (IN CAPITAL LETTERS): [AHSAN.AZHAR@UCP.EDU.PK](mailto:AHSAN.AZHAR@UCP.EDU.PK)

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| **Note:**  Advisor can’t be changed without prior permission of the Manager Projects and the duration for completion of Research Project / Thesis is 1 Year (approx.) from the date of Registration of Research Project/Thesis. | Signatures and Date  |  | | --- | |  |   **Advisor** |

**For Project Office use only**

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| Remarks: | | Signatures and Date  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  **Manager Projects** |
| Group No |  |