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**PROJECT AND TEAM INFORMATION**

## Project Title

(Try to choose a catchy title. Max 20 words).

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| **College seat Allotment System** |

## Student/Team Information

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| --- | --- |
| Team Name:  Team # (Mentor needs to assign) | Priority Pioneers |
| Team member 1 (Team Lead) | *Goyal, Aayushi- 240221697*  [*aayushi@1754@gmail.com*](mailto:aayushi@1754@gmail.com) |
| Team member 2 | *Kuriyal, Sneha – 24022258*  [*24022258@geu.ac.in*](mailto:24022258@geu.ac.in) |
| Team member 3 | *Gupta, Tanishka- 240221660*  [*240221660@geu.ac.in*](mailto:240221660@geu.ac.in)  *A child wearing glasses and a tie  AI-generated content may be incorrect.* |

**PROJECT PROGRESS DESCRIPTION (35 pts)**

## Project Abstract (2 pts)

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| The **College Seat Allotment System** is a program made to make the process of giving seats in colleges to students easier and faster. Normally, this work is done by hand, which takes a lot of time, can have mistakes, and is hard to keep fair and clear. Our system solves these problems by doing the work automatically with the help of a computer program.  In this system, students can give their details like name, marks, category (for example, general, SC, ST), and the list of colleges they prefer. The program then follows set rules and reservation policies to give seats to students in a fair way. After allotment, the program can show reports like which student got which college, how many seats each college has filled, and how many seats were given to each category. It can also save these results into a CSV or text file so that they can be printed or saved for later use.This project is written in the C programming language. It uses **linked lists** to store student and college data. Linked lists allow us to handle data that can grow or shrink easily, unlike fixed-size arrays. Because of this, adding, updating or displaying records becomes simple. In the future, we can also use trees or graphs to handle even more complex relationships between colleges, courses, and seat types.By using this system, the work of seat allotment becomes faster, reduces mistakes, and is fairer and clearer for both the college staff and the students. |

## Updated Project Approach and Architecture (2 pts) (Describe your current approach, including system design, communication protocols, libraries used, etc. Max 300 words).

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| Write your answer here |

## Tasks Completed (7 pts)

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| Task Completed | Team Member |
| Output & Reporting Module containing following functions is completed:   1. displayStudentAllocations() 2. displayCollegeAllocations() 3. displayCategoryWise() 4. exportResultsToFile() | Aayushi Goyal |

## Challenges/Roadblocks (7 pts)

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| **Header and Implementation Files** Managing multiple files (output.h, output.c, list.h, etc.) and making sure the correct prototypes, #includes, and #ifndef/#define guards were used was a challenge. Small mistakes (like mismatched prototypes or missing includes) caused compile errors. |

## Tasks Pending (7 pts)

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| Task Pending | Team Member (to complete the task) |
| **UI Module:** Integrate GUI with backend allocation logic, add input validation, and complete testing & documentation of the user interface. | Aayushi Goyal |

## 

## Project Outcome/Deliverables (2 pts)

(Describe what are the key outcomes / deliverables of the project. Max 200 words).

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| Your answer here |

# Progress Overview (2 pts) (Summarize how much of the project is done, what's behind schedule, what's ahead of schedule. Max 200 words.)

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| Your answer here |

# Codebase Information (2 pts) (Repository link, branch, and information about important commits.)

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| Your answer here |

## Testing and Validation Status (2 pts) (Provide information about any tests conducted)

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| --- | --- | --- |
| Test Type | Status (Pass/Fail) | Notes |
|  |  |  |

# Deliverables Progress (2 pts) (Summarize the current status of all key project deliverables mentioned earlier. Indicate whether each deliverable is completed, in progress, or pending.)

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| Your answer here |