# Use Case Description

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| **Use Case name:** | Search a recipe |
| **Product name:** | AmazingChef |
| **Team:** | Knights of 280 |
| **Date:** | September 8,2017 |

| 1. Goal |
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| Search a recipe based on the ingredients and time entered by the user |

| 2. Summary |
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| Here, the user is expected to give as input, the number and quantity of ingredients and the time which he/she has and on clicking the search button after that, the list of all the recipes possible within that given time frame will show up |

| 3. Actors |
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| Actor 1: Customer  Actor 2: System  *etc.* |

| 4. Preconditions |
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| 1.The customer should enter enough ingredients and cook time |

| 5. Trigger |
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| Clicking the search button |

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| 6. Primary Sequence | |
| **Step** | **Action** |
| 1 | The system shows a signal of loading |
| 2 | The system matches requirements with recipe in database and display result |
| 3 | Customer picks a recipe or further refine the result using filters |

| 7. Primary Postconditions |
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| 1. Minimum of 2 ingredients needed to search a recipe. 2. Recipe must be display from most matched to least matched |

| 8. Alternate Sequences | |
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| **Alternate Trigger** | |
| 2.1. User gives n ingredients as input but there is no recipe found with those exact n ingredients. | |
| **Step** | **Action** |
| 2.1.1 | The system displays a message to the user |
| 2.1.2 | The system shows the recipes which can be made out of any k ingredients out of n ingredients entered by the user where k < n |
| *etc.* |  |
| Alternate Postconditions | |
| * The user picks up a recipe given to it by the system that can be made out of k ingredients.   *etc.* | |
| **Alternate Trigger** | |
| 2.2.User has insufficient quantity of any specific ingredient required to make the dish. | |
| **Step** | **Action** |
| 2.2.1 | The system will display a message showing that the specific ingredient is not available as the required amount |
| Alternate Postconditions | |
| * Customer knows what additional ingredient is needed to make a dish   *etc.* | |

| 9. Nonfunctional Requirements |
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| * The system displays messages/alerts in English * The system responds to the user in few seconds   *etc.* |

| 10. Glossary |
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| Customer = a person who wants to get a recipe with the available ingredients and time  System = a system that maintains the list of recipes along with the quantity of each ingredient and the time needed to prepare it |