HiveMind System Design

Group Name: Working Bees

Group Members: Arjun, Calvin, Morgan, Katty, Jeremy, and Joshua

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Contents

1 CRC Cards

Hive	
• Represents a custom room for group making that is accessed using a code • Contains the unique criteria specified by the host and the current group formations • Keeps track of the current phase of the algorithm and acts a means for the host to monitor the group making process	• Arjun • Morgan • Katty • Joshua

User	
• Represents an individual person using the application • Can choose from a collection of Hives to join, and in each, can be either a host or an attendee • Used in authentication	• Arjun • Jeremy • Calvin

Host	
• Sets the criteria each partipant should enter for match making • Has a high level view of the matchmaking process via the hive	• Arjun • Calvin

Attendee	
• Represents a user in the hive looking to be grouped • Can join or invite other attendees to be part of their matching group prior to the match making process	• Arjun • Jeremy

MatchingGroup	
• Represents an individual or intial group of people to be grouped by the algorithm • Contains a profile (name, biography, and profile picture) and a set of reponses to the matching questions made by the host • Gives responses of preference to the group making algorithm in the form of accept, reject, or indifference to each other matching group	• Arjun • Calvin

Swarm	
• Represents a final group made by the algorithm • Contains each of the members in the group and a chat for them to communicate	• Arjun

2 Software Architecture Diagram

We are using a three-tier architecture for our product. More information about this architecture can be found below.

`https://www.ibm.com/topics/three-tier-architecture`