***ASSIGNMENT- 1***

***Create HLD document for an application- BGMI with 5 features***

**High-Level Design Document: BGMI**

**Introduction:**

BGMI application is designed to offer an exciting gaming experience where players compete against each other until only one remains standing. This document explains the key features and how they work in simple terms.

**1. User Accounts:**

* **What it does**: Lets players create accounts, log in securely, and manage their profiles.
* **How it works**:
  + **Sign-up/Login**: Players can create new accounts or log in with existing ones using creds.
  + **Profile Management**: Players can customize their profiles, check game stats, and adjust settings like sensitivity to improve their gameplay.
  + **Social Login**: Players can also sign up or log in using their social media accounts like Facebook or Google.

**2. Finding Matches:**

* **What it does**: Allows players to join matches or create custom rooms to play with friends/random players.
* **How it works**:
  + **Matchmaking**: The game system pairs players together based on their skill level and preferred game mode like Arena/Classic/Ranked mode.
  + **Lobby Management**: Players get together in a virtual lobby where they chat, form teams, invite friends.
  + **Custom Rooms**: Players have the option to create their own private rooms with specific settings, time-limit and invite friends to join or challenge other players in 1v1 like battle.

**3. Gameplay Features:**

* **What it does**: Provides immersive gameplay with character customization, weapon selection, and in-game communication.
* **How it works**:
  + **Character Customization**: Players can personalize their in-game characters with different outfits, hairstyles, and accessories.
  + **Weapon Selection**: Players can choose from a variety of weapons with unique attributes and abilities.
  + **Voice Chat**: Players can talk to their teammates in real-time using voice chat during matches to strategize and coordinate their actions.

**4. In-Game Purchases:**

* **What it does**: Allows players to buy in-game currency and items for customization or gameplay advantages.
* **How it works**:
  + **Virtual Currency**: Players can purchase in-game currency (UC) using real money to buy items like skins, emotes, or weapon upgrades.
  + **Item Shop**: There's a virtual store where players can browse and purchase various items, cosmetics, and power-ups.
  + **Crate opening:** Player can spend in-game currency (UC) to open crate and get rewards like gun skins, emote etc.

**5. Leaderboards and Social Features:**

* **What it does**: Lets players track their progress, compete with others, and interact socially.
* **How it works**:
  + **Leaderboards**: Players can see their rankings and achievements compared to others, motivating them to improve their skills.
  + **Social Sharing**: Players can share their achievements, gameplay highlights, or favourite moments with friends on social media platforms.
  + **Clan System**: Players can join or create clans (teams) to play together, participate in clan events.