- Good user stories should be … ***INVEST*[1]**!
  - **I**ndependent
    - Should not depend on others
  - **N**egotiable
    - A story is not a contract, but part of a conversation
  - **V**aluable
    - A story should be valuable to someone
  - **E**stimable
    - Development cost must be estimable
  - **S**mall
    - User stories should be small and cover single thing
  - **T**estable
    - Developers should be able to set acceptance criteria

ake, Bill. *"INVEST in good stories, and SMART tasks."* Retrieved December 13 (2003): 2011.

User Stories

1. User Authentication

- **Story**:
  As a new user, I want to create an account with an ID and password so that I can securely access and personalize my experience within the app.

- **Acceptance Criteria**:

  - Account credentials are stored securely.

  - Users can log in and log out anytime.

  - Users can register and login using Kakao/Google account

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2. Smart Food Profile Setup (First Startup)

- **Story**:
  As a user, I want to input my dietary restrictions, preferred cuisines, spice tolerance, budget, and meal timing/schedule when I first use the app so that the system can automatically generate menu recommendations that fit my lifestyle.

- **Acceptance Criteria**:

    - Hard constraints (e.g., allergies, vegetarianism, halal) are always enforced and never violated.
    - Soft constraints influence menu ranking but do not override hard constraints.
    - Profile setup is divided into two parts:
  1. Hard Constraints Setup: A straightforward step where users specify non-negotiable restrictions (e.g., allergies, diets).
  2. Soft Constraints Setup:
      - Users select preferred food categories (e.g., meat, fish, fast food, salads, etc.).
      - From the selected categories, the system randomly presents ~10 menu items.
      - Users rate each item as good, so-so, or bad, which initializes their preference profile.

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3. Updating Food Profiles

- **Story**:
  As a user, I want to view, update, or delete my food profile so that my changing preferences and restrictions are always reflected in group recommendations.

- **Acceptance Criteria**:

    - Users can update constraints or preferences at any time.

    - Updates are immediately applied in the next recommendation session.

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4. Voting Session & Team Recommendation

- **Story**:
  As a team leader, I want to create a team (via invitation links) and start a voting session so that members can collaboratively vote on menus that satisfy everyone's profiles and constraints.

- **Acceptance Criteria**:

    - Team Setup
        - Leader can set a team name and an optional password.

        - Invitation link allows members to join.
    - Voting Session Flow

- Candidate Generation
  - Server proposes 5 items using each member's profile
- Veto Round (anonymous, 1 per user)
  - Each user may veto exactly one item.
  - If an item receives ≥1 veto, it is swapped out with the best next candidate.
- Locking the Final 5
  - The 5 candidates are locked once either all members press "OK with this 5", or a timer T expires (e.g, 15 seconds).
- Final Ranking Vote
  - Each user selects their Top 2 items and server aggregates votes into a ranked list of the 5.
- Outcome & Logging
  - Ranked list is displayed to all members.
  - Leader selects the actual eaten item.
  - Outcome is logged to update both team and individual preference models.

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5. Menu Logging

- **Story**:
  As a user, I want to log my meals by searching for food and selecting its category/details so that I can keep a record of my eating habits without tedious manual input.

- **Acceptance Criteria**:

  - Search query matches to known food categories (e.g., "치즈김밥" → "김밥").

  - Users can add rating, notable ingredients or skip detailed entry.

  - Desserts and drinks are excluded from logging suggestions.

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6. Secure Data Storage

- **Story**:
  As a user, I want my account and profile data to be stored securely so that I can trust that my personal information is safe.

- **Acceptance Criteria**:

  - Data is encrypted in storage and transit.

○ Unauthorized users cannot access account data.

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7. Team Management

- **Story**:
  As a user, I want to view and manage the teams I belong to—switching between them when making meal decisions, and leaving teams I no longer participate in—so that my team list stays relevant and I only receive necessary notifications.

- **Acceptance Criteria**:

  ○ Team List:
  - "Team List" page shows all teams the user belongs to.
  - Most recently active team is listed at the top.
  - Selecting a team displays its member list and sessions.
  ○ Leaving a Team:
  - Once a user leaves a team:
    - The team no longer appears in their list.
    - They no longer receive notifications from that team.
    - Their name no longer appears in the team's member list.
  - A user can rejoin a team later via the normal invitation.

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8. Member Organizations within Team

- **Story**:
  As a team member, I want to view the list of all members in my team so that I know who is included in the recommendation session.

- **Acceptance Criteria**:

  ○ Member list updates dynamically as members join or leave.

  ○ Each member is identified by their username.

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9. Session Participation Control

- **Story**:
  As a team leader, I want to temporarily exclude members who are not joining today's meal so that recommendations only reflect the actual participants.

- **Acceptance Criteria**:

    - Before a session starts, the leader can toggle which members are included.

    - Notifications are only sent to included members.

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10. Push Notifications (Future Feature)

- **Story**:
  As a user, I want to receive push notifications when a recommendation session starts or when vote results are finalized so that I stay updated without opening the app.

- **Acceptance Criteria**:

    - Notification is sent at session start.

    - Notification is sent when final menu is chosen.

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11. Menu Explanations

- **Story**:
  As a user, I want each recommended menu to include a short explanation (e.g., "matches 4/5 members' preference") so that I understand why it was suggested.

- **Acceptance Criteria**:

    - Explanations highlight matching profile attributes.

    - Explanations are shown alongside each option during voting.

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12. In-App Consensus View

- **Story**:
  As a team member, I want to see the final recommended menu displayed in the app so that I can confirm the group's decision at any time.

- **Acceptance Criteria**:

- The final chosen menu appears in the session summary.

- All members in the team can view the final result.