

Individual assignment

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Section 1:

Investigate how social media platforms contribute to the spread of conspiracy theories among users

Suitable Methods:

1. Online Surveys

Useful for collecting large scale data on user habits, beliefs, and social media usage.

Helps identify patterns e.g., which platforms or content types users find most convincing.

Quick and anonymous, encouraging honest responses.

2. Interviews

Provide deep insights into why people believe or share conspiracy content.

Can explore user trust levels, motivations, and emotional triggers.

Especially useful for understanding different age or interest groups.

3. Content Analysis

Involves systematically studying posts, comments, or hashtags.

Helps identify recurring themes, misinformation patterns, and how narratives spread.

Can combine with social media analytics to measure reach and engagement.

Section 2

: Design and build an augmented reality application to assist people in evacuating buildings during an emergency

Suitable Methods:

1.Field Observation

Observe how people behave during fire drills or emergency simulations.

Provides real-world data on movement patterns, confusion points, and reactions.

Helps identify what kind of AR guidance (arrows, directions, voice prompts) would be most effective.

2. Focus Groups

Small group discussions with potential users or safety experts.

Helps uncover user expectations and design preferences before building prototypes.

Encourages idea exchange and feedback on usability or safety features.

3.Usability Testing

Test the AR prototype with real users in simulated emergency scenarios.

Allows direct observation of user interaction what confuses or helps them.

Feedback improves user interface, visuals, and overall performance.

Section 3

: Design and build an application to support people's self-care practices

Suitable Methods:

1. Questionnaires

Gather quantitative data on lifestyle habits, routines, and preferred self-care activities.

Useful for identifying common needs or pain points (e.g., time management, motivation).

Can include rating scales to measure well-being or stress levels.

2. Interviews

Offer a deeper understanding of users' emotions, struggles, and goals.

Help reveal personal barriers to self-care such as lack of time or awareness.

Can guide app tone (supportive, motivational, informative).

3. Diary Studies

Participants record their self-care activities and moods over several days or weeks.

Captures real-life habits and consistency, rather than one-time responses.

Helps identify patterns for personalized app recommendations.

Section 4

: Design and build an application to improve patients' experiences in healthcare settings

Suitable Methods

1. Contextual Inquiry

Observe patients and healthcare staff in real environments (clinics, hospitals).

Provides firsthand understanding of workflows, delays, communication issues, and emotional stress points.

Helps design solutions that fit naturally into the existing system.

2. Interviews

Conduct with both patients and healthcare professionals.

Uncovers pain points e.g., waiting times, unclear information, or anxiety before procedures.

Helps design empathetic and user-centered interfaces.

3. Journey Mapping

Visualize the entire patient experience from booking appointments to post-treatment follow-ups.

Highlights emotional highs/lows, frustrations, and opportunities for improvement.

Guides app features like appointment tracking, reminders, and feedback systems.