Below is a security case for Instant Messaging (IM) software created by instantiating the provided security case pattern. The placeholders are replaced with specific information pertinent to the IM software, and the structure is presented in a hierarchical tree format using dashes to differentiate levels.

- \*\*Goal G1\*\*: IM software is acceptably secure in its environment

- \*\*Context C1\*\*: Definitions and characteristics of Instant Messaging software

- \*\*Context C2\*\*: General user environment and operation conditions for IM software

- \*\*Context C3\*\*: Definition of "acceptably secure" for IM software includes protecting critical assets against unauthorized access and data breaches

- \*\*Strategy S1\*\*: Argument that IM software assets are under protection

- \*\*Justification J1\*\*: Protection of IM software assets ensures that the software maintains integrity and confidentiality in operations

- \*\*Goal G2\*\*: All identified IM software critical assets are protected

- \*\*Strategy S2\*\*: Respective arguments of IM software critical assets

- \*\*Context C4\*\*: List of critical software assets including Registration information, User account information, Authentication information, Login process, Chat logs

- \*\*Justification J2\*\*: Each asset's critical nature and protection necessity are well-defined and justified

- \*\*Goal G3\*\*: A specific IM software critical asset is protected

- \*\*Strategy S3\*\*: Arguments based on the type to which the IM software critical asset belongs

- \*\*Context C5\*\*: List of types of IM software critical assets based on PEDD classification: Process, Data Exchange, Data Storage, and Environment Entity

- \*\*Justification J3\*\*: Each type classification is aligned with the IM software's operational needs and security requirements

- \*\*Goal G4.1\*\*: Registration information, a Data Storage type, is protected

- \*\*Goal G4.2\*\*: Registration process, a Process type, is protected

- \*\*Goal G4.3\*\*: User account information, a Data Storage type, is protected

- \*\*Goal G4.4\*\*: Authentication information, a Data Storage type, is protected

- \*\*Goal G4.5\*\*: Login process, a Process type, is protected

- \*\*Goal G4.6\*\*: Chat logs, a Data Storage type, is protected

Each goal at the lowest level (G4.x) corresponds to a specific critical asset of IM software identified in C4. This structure comprehensively ensures that protection measures are purposefully designed and implemented according to the specific type and vulnerability of each asset, following PEDD classification in C5.