

CRC Card Builder Page

CRC Card 1

ChessGame

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|------------------|---|---------------|---|
| Card Name | ChessGame | | |
| Superclasses | | | |
| Subclasses | React.Component | | |
| Responsibilities | Manages game state and board Handles piece selection and mov Updates board display Manages captured pieces Handles game initialization Updates board periodically Converts board data between for Renders chess board UI | Collaborators | ChessService LanguageProvider Board State Manager |

CRC Card 2

ChessService

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|------------------|--|---------------|--------------------------|
| Card Name | ChessService | | |
| Superclasses | | | |
| Subclasses | | | |
| Responsibilities | Handles API communication Starts guest game session Sends move commands Retrieves board state Manages game IDs | Collaborators | ChessGame Backend API |

CRC Card 3

LanguageProvider

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|------------------|--|---------------|----------------------------------|
| Card Name | LanguageProvider | | |
| Superclasses | | | |
| Subclasses | | | |
| Responsibilities | Provides language context Manages language state Provides translation function Switches between languages | Collaborators | ChessGame Translation Service |

CRC Card 4

BoardStateManager

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|--------------|-------------------|--|--|
| Card Name | BoardStateManager | | |
| Superclasses | | | |

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|------------------|--|---------------|---------------------------|
| | | | |
| Subclasses | | | |
| Responsibilities | Initializes board array Converts piece representations Manages piece colors and types Handles captured pieces Converts API responses to UI for | Collaborators | ChessGame ChessService |

CRC Card 5

MoveHandler

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|------------------|---|---------------|---------------------------|
| Card Name | MoveHandler | | |
| Superclasses | | | |
| Subclasses | | | |
| Responsibilities | Validates piece selection Processes move attempts Updates piece positions Tracks captured pieces Manages player turns | Collaborators | ChessGame ChessService |

CRC Card 6

UIRenderrer

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|------------------|---|---------------|-------------------------------|
| Card Name | UIRenderrer | | |
| Superclasses | | | |
| Subclasses | | | |
| Responsibilities | Renders chess board grid Displays piece images Shows captured pieces Handles square highlighting Displays game status Shows current player | Collaborators | ChessGame LanguageProvider |

CRC Card 7

GameStateManager

| | | | |
|------------------|---|---------------|---------------------------|
| Card Name | GameStateManager | | |
| Superclasses | | | |
| Subclasses | | | |
| Responsibilities | Tracks game session state Manages player IDs Handles error states | Collaborators | ChessGame ChessService |

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|--|--|--|--|
| | Updates game status Maintains current player turn | | |
|--|--|--|--|