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Initializes application and creates all needed Services and Configurations

RoutingService

Routing Service distributes game ID across components thay need it

Class ChessCV

Stores state of single Piece used by CV version on chess Board

Inheritance

System.Object

ChessCV

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: BoardWatcherClient Assembly: BoardWatcherClient.dll

Syntax

public class ChessCV

Properties

gameld

Declaration

```
public string gameId { get; set; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

gameType

Declaration

```
public string gameType { get; set; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

Methods

AddMove(Move)

Adds new move

Declaration

public void AddMove(Move move)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|------|------|-------------|
| Move | move | |

Dispose()

Disposes connection token and closes connection with the server

Declaration

public void Dispose()

DownloadFile()

Downloads file containing game in PGN notation

Declaration

public void DownloadFile()

getClearField()

Returns blank field

Declaration

public PieceCV getClearField()

Returns

| ТУРЕ | DESCRIPTION |
|---------|-------------|
| PieceCV | |

getMoveInNotation(Move, Boolean)

Returns move in PGN notation

Declaration

public string getMoveInNotation(Move move, bool castle = false)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|--------|-------------|
| Move | move | |
| System.Boolean | castle | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

GetPiece(PieceCV)

Returns corresponding symbol for given piece id

public string GetPiece(PieceCV piece)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------|-------|-------------|
| PieceCV | piece | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

getPieceName(Int32)

Returns corresponding first character of a piece name for given piece id

Declaration

public string getPieceName(int pieceId)

Parameters

| ТУРЕ | NAME | DESCRIPTION |
|--------------|---------|-------------|
| System.Int32 | pieceld | |

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

moveBackwards()

Moves gameState one time backwards

Declaration

public void moveBackwards()

moveForward()

Moves gameState one time forward

Declaration

public void moveForward()

OnInitializedAsync()

Runs all needed methods on component initialize

Declaration

protected override Task OnInitializedAsync()

Returns

| ТУРЕ | DESCRIPTION |
|------|-------------|
| Task | |

RevertLastMove()

Revert last move

Declaration

public void RevertLastMove()

skipBackwards()

Skips gameState to the initial state

Declaration

public void skipBackwards()

skipForward()

Skips gameState to the latest state

Declaration

public void skipForward()

updateMovesInNotatioin()

Update moves in PGN notation

Declaration

public void updateMovesInNotatioin()

Class ChessGameState

Stores state of CV version on chess Board

Inheritance

System.Object

ChessGameState

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: BoardWatcherClient
Assembly: BoardWatcherClient.dll

Syntax

public class ChessGameState

Properties

Board

Declaration

```
public List<PieceCV> Board { get; set; }
```

Property Value

| TYPE | | DESCRIPTION |
|----------|-------------------------------------|-------------|
| System.C | ollections.Generic.List < PieceCV > | |

Class ChessGameStateService

Helps generate new CV version of chess Board

Inheritance

System.Object

ChessGameStateService

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: BoardWatcherClient
Assembly: BoardWatcherClient.dll

Syntax

public class ChessGameStateService

Fields

gameState

Stores current CV version of chess Board

Declaration

public ChessGameState gameState

Field Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| ChessGameState | |

Methods

generateNewBoard()

Generates new CV version of chess Board

Declaration

public List<PieceCV> generateNewBoard()

Returns

| ТУРЕ | DESCRIPTION |
|---|-------------|
| System.Collections.Generic.List < PieceCV > | |

GetPieceData()

Returns CV version of chess Board

| ่อน | blic | <pre>Task<list<piececv>></list<piececv></pre> | <pre>GetPieceData()</pre> | |
|-----|------|--|---------------------------|--|
| | | | | |

Returns

| ТУРЕ | DESCRIPTION |
|---|-------------|
| System.Threading.Tasks.Task <system.collections.generic.list<piececv>></system.collections.generic.list<piececv> | |

get Piece Data From Json ()

Deserializes test JSON file containing chess Board

Declaration

public PieceCV[] getPieceDataFromJson()

Returns

| ТҮРЕ | DESCRIPTION |
|-----------|-------------|
| PieceCV[] | |

Class Move

Stores information about single piece move

Inheritance

System.Object

Move

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: BoardWatcherClient
Assembly: BoardWatcherClient.dll

Syntax

public class Move

Constructors

Move(Int32, Int32, Int32, Boolean)

Declaration

public Move(int pieceId, int from, int to, bool color)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|---------|-------------|
| System.Int32 | pieceld | |
| System.Int32 | from | |
| System.Int32 | to | |
| System.Boolean | color | |

Properties

color

Declaration

```
public bool color { get; set; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

from

| <pre>public int from { get; set; }</pre> | | |
|--|--|--|
|--|--|--|

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

piece

 ${\sf Declaration}$

```
public int piece { get; set; }
```

Property Value

| ТУРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

to

Declaration

```
public int to { get; set; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Class PieceCV

Stores state of single Piece used by CV version on chess Board

Inheritance

System.Object

PieceCV

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: BoardWatcherClient
Assembly: BoardWatcherClient.dll

Syntax

public class PieceCV

Constructors

PieceCV(Int32, Boolean)

Declaration

public PieceCV(int id, bool colour)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|----------------|--------|-------------|
| System.Int32 | id | |
| System.Boolean | colour | |

Properties

Color

Declaration

```
public bool Color { get; set; }
```

Property Value

| ТҮРЕ | DESCRIPTION |
|----------------|-------------|
| System.Boolean | |

Id

```
public int Id { get; set; }
```

| ТҮРЕ | DESCRIPTION |
|--------------|-------------|
| System.Int32 | |

Class Program

Initializes application and creates all needed Services and Configurations

Inheritance

System.Object

Program

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System.Object.MemberwiseClone()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: BoardWatcherClient
Assembly: BoardWatcherClient.dll

Syntax

public class Program

Methods

Main(String[])

Declaration

public static Task Main(string[] args)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|-----------------|------|-------------|
| System.String[] | args | |

Returns

| ТҮРЕ | DESCRIPTION |
|--------------------------------|-------------|
| System. Threading. Tasks. Task | |

Class RoutingService

Routing Service distributes game ID across components thay need it

Inheritance

System.Object

RoutingService

Inherited Members

System.Object.Equals(System.Object)

System.Object.Equals(System.Object, System.Object)

System.Object.GetHashCode()

System.Object.GetType()

System. Object. Memberwise Clone ()

System.Object.ReferenceEquals(System.Object, System.Object)

System.Object.ToString()

Namespace: BoardWatcherClient
Assembly: BoardWatcherClient.dll

Syntax

public class RoutingService

Constructors

RoutingService()

Constructor initializes gameID

Declaration

public RoutingService()

Methods

getGameId()

Declaration

public string getGameId()

Returns

| ТҮРЕ | DESCRIPTION |
|---------------|-------------|
| System.String | |

setGameId(String)

Declaration

public void setGameId(string id)

Parameters

| ТҮРЕ | NAME | DESCRIPTION |
|---------------|------|-------------|
| System.String | id | |