User

1: CreatePatient(string id, int age, int sex, int cp, int trestbps, int chol, int fbs, int restecg, int thalach, int exang, double oldpeak, int slope, int ca, int thal, int target)

: PatientsFileWindow

: DataManager

: Patient

1.1: CreatePatient(string id, int age, int sex, int cp, int trestbps, int chol, int fbs, int restecg, int thalach, int exang, double oldpeak, int slope, int ca, int thal, int target)

1.1.1: Patient(string id, int age, int sex, int cp, int trestbps, int chol, int fbs, int restecg, int thalach, int exang, double oldpeak, int slope, int ca, int thal, int target)

1.1.1.1: returns a new Patient

1.1.1.1.1: shows "Patient created successfully

User

: PatientsFileWindow

: DataManager

: DataTable

1: filter(dt)

1.1: filter(dt)

loop

[for each filter from the array listFilters]

1.1.1: aux

1.1.2: DefaultView.RowFilter = aux

1.1.3: DataTable

1.1.4: filters the DataTable given

1.1.4.1: Shows the dataTable filtered

User

: PatientFileWindow

: Connection

1: PatientsWindow(Node<Patient> rootTree)

1.1: ImageFromAnURI(string urlWebApi)

1.1.1: string urlImage = GetImageURL(urlWebApi);

1.1.2: null

: Image

2: Image image

2.1: Uri(urlImage)

: Uri

3: Uri uri

3.1: (HttpWebRequest)WebRequest.Create(uri)

: HttpWebRequest

4: webRequest.GetResponse()

: WebResponse

5: webResponse.GetResponseStream()

: Stream

6: Stream stream

3.2: image

3.2.1: image = Image.FromStream(stream)

3.2.2: image

3.3: Image image

3.3.1: shows the image of the decision tree auto

User

: AddPatientControl

: Connection

1: buttonRegisterAuto_Click(object sender, EventArgs e)

1.1: SendPatientToServer(string uirWebAPI, Patient patient)

1.1.1: Uri(uirWebAPI)

: Uri

: WebRequest

1.1.2: (HttpWebRequest)WebRequest.Create(uri)

2: ContentType = "application/json"

3: Method = "POST"

1.1.3: StreamWriter(httpWebRequest.GetRequestStream())

: StreamWriter

4: string stringJson = JsonConvert.SerializeObject(patient)

5: streamWriter.Write(stringJson)

1.1.4: (HttpWebResponse)httpWebRequest.GetResponse()

: HttpWebResponse

1.1.5: StreamReader(httpWebResponse.GetResponseStream())

: StreamReader

1.1.6: webResponse

6: webResponse = streamReader.ReadToEnd();

1.2: Shows a message that the patient has been added

Actor

: PatientsFileWindow

: DataManager

: DecisionTree

: Patient

1: tasGordo(string id, int age, int sex, int cp, int trestbps, int chol, int fbs, int restecg, int thalach, int exang, double oldpeak, int slope, int ca, int thal, int target)

1.1: tasGordo(string id, int age, int sex, int cp, int trestbps, int chol, int fbs, int restecg, int thalach, int exang, double oldpeak, int slope, int ca, int thal, int target)

1.1.1:

1.1.2:

loop

[foreach]

1.1.3: value

1.1.4: return "1" if the user has heart problems or "0" if not

1.1.4.1: shows the "1" or "0"